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THE ESTIMATED COST FOR THIS REQUEST IS 67.68 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L4 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:1217060 CAPLUS

DOCUMENT NUMBER: 149:425982

TITLE: Preparation of benzothiophenylpiperazine derivatives
for treatment of central nervous system diseases
INVENTOR(S): Yamashita, Hiroshi; Matsubara, Atsushi; Oshima, Kunio;
Kuroda, Hideaki; Ito, Nobuaki; Miyamura, Shin;
Shimizu, Satoshi; Tanaka, Tatsuyoshi; Taira, Shinichi;
Kondo, Hitomi; Itotani, Motohiro; Fukushima, Tae;
Takahashi, Hisashi; Sakurai, Yoji; Kuroda, Takeshi

PATENT ASSIGNEE(S): Ohtsuka Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 454pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

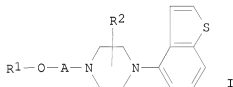
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2008239617	A	20081009	JP 2008-45563	20080227
PRIORITY APPLN. INFO.:			JP 2007-46887	A 20070227
OTHER SOURCE(S):	MARPAT 149:425982			

GI



AB The title compds. I [R1 = (un)substituted cycloalkyl, (un)substituted aromatic ring, (un)substituted heterocyclic ring; R2 = H, alkyl; A = alkylene, alkenylene] are prepared Thus,
5-[3-[4-benzo[b]thiophen-4-ylpiperazin-1-yl]propoxy]-1-methyl-1H-pyrazole-3-carboxylic acid Me ester was prepared from
5-(3-chloropropoxy)-1-methyl-1H-pyrazole-3-carboxylic acid Me ester and 1-benzo[b]thiophen-4-ylpiperazine hydrochloride. In a dopamine D2 receptor binding assay, compds. of this invention showed Ki values of 0.2 to 5 nM. The title compds. I [R1 = (un)substituted cycloalkyl, (un)substituted aromatic ring, (un)substituted heterocyclic ring; R2 = H, alkyl; A = alkylene, alkenylene] were prepared Thus,
5-[3-[4-benzo[b]thiophen-4-ylpiperazin-1-yl]propoxy]-1-methyl-1H-pyrazole-3-carboxylic acid Me ester was prepared from
5-(3-chloropropoxy)-1-methyl-1H-pyrazole-3-carboxylic acid Me ester and 1-benzo[b]thiophen-4-ylpiperazine hydrochloride. In a dopamine D2 receptor binding assay, compds. of this invention showed Ki values of 0.2 to 5 nM.

IT 928226-28-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

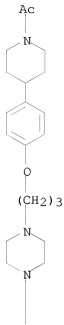
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of benzo[b]thiophen-4-yl-piperazine and related compds. as antipsychotic agents for the treatment of mental disorders)

RN 928226-28-2 CAPLUS

CN Ethanone, 1-[4-[4-[3-(4-benzo[b]thien-4-yl-1-piperazinyl)propoxy]phenyl]-1-piperidinyl]- (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



L4 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:705802 CAPLUS

DOCUMENT NUMBER: 147:95560

TITLE: Preparation of 3-[4-[[4-[4-[[3-(3,3-dimethyl-1-piperidinyl)propyl]oxy]phenyl]-1-piperidinyl]carbonyl]-1-naphthalenyl]propanoates as histamine H1 and H3 antagonists for the treatment of inflammatory and/or allergic disorders.

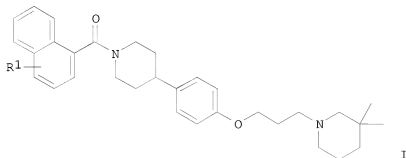
INVENTOR(S): Hodgson, Simon Teanby; Procopiou, Panayiotis Alexandrou; Vinader Brugarolas, Maria Victoria

PATENT ASSIGNEE(S): Glaxo Group Limited, UK

SOURCE: PCT Int. Appl., 62pp.

DOCUMENT TYPE: CODEN: PIXXD2
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: 1 English
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007071691	A1	20070628	WO 2006-EP69943	20061219
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AU 2006328512	A1	20070628	AU 2006-328512	20061219
CA 2634391	A1	20070628	CA 2006-2634391	20061219
EP 1963307	A1	20080903	EP 2006-841477	20061219
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, HR				
JP 2009520001	T	20090521	JP 2008-546432	20061219
NO 2008002695	A	20080916	NO 2008-2695	20080611
US 20080312280	A1	20081218	US 2008-158185	20080619
CN 101341146	A	20090107	CN 2006-80048106	20080619
IN 2008KN02485	A	20090123	IN 2008-KN2485	20080619
MX 2008008141	A	20080704	MX 2008-8141	20080620
KR 2008087102	A	20080930	KR 2008-715535	20080626
PRIORITY APPLN. INFO.:			GB 2005-25897	A 20051220
			GB 2006-23217	A 20061121
			WO 2006-EP69943	W 20061219
OTHER SOURCE(S):		CASREACT 147:95560; MARPAT 147:95560		
GI				



AB Title compds. (I; R1 = CH₂CH₂COOH, CH₂CO₂H), were prepared Thus, 3-[4-[[4-[4-[[3-(3,3-dimethyl-1-piperidinyl)propyl]oxy]phenyl]-1-piperidinyl]carbonyl]-1-naphthalenyl]propanoic acid formate salt (multistep preparation given) showed histamine H3 antagonist activity with pKi

= 7.4.

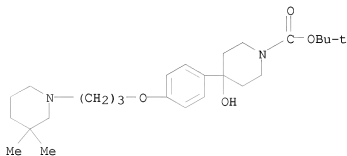
IT 942260-15-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of methylpiperidinylpropyloxyphenylpiperidinylcarbonylnaphthalenylpropanoates as H1 and H3 antagonists for the treatment of inflammatory and/or allergic disorders)

RN 942260-15-3 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-[3-(3,3-dimethyl-1-piperidinyl)propoxy]phenyl]-4-hydroxy-, 1,1-dimethylethyl ester (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:257347 CAPLUS

DOCUMENT NUMBER: 146:316939

TITLE: Preparation of benzo[b]thiophen-4-yl-piperazine and related compounds as antipsychotic agents for the treatment of mental disorders

INVENTOR(S): Yamashita, Hiroshi; Matsubara, Jun; Oshima, Kunio; Kuroda, Hideaki; Ito, Nobuaki; Miyamura, Shin; Shimizu, Satoshi; Tanaka, Tatsuyoshi; Taira, Shinichi; Kondo, Kazumi; Itotani, Motohiro; Bando, Masahiko; Fukushima, Tae; Oshiro, Yasuo; Takahashi, Haruka; Sakurai, Yohji; Kuroda, Takeshi; Shimada, Jun; Maeda, Kenji; Tadori, Yoshihiro; Amada, Naoki; Akazawa, Hitomi; Yamashita, Junko; Mori, Atsushi; Uwahodo, Yasufumi; Masumoto, Takumi; Sugino, Haruhiko; Kikuchi, Tetsuro; Hashimoto, Kazuya

PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 686pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007026959	A2	20070308	WO 2006-JP317704	20060831
WO 2007026959	A3	20070816		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR,

KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW,
 MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU,
 SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA,
 UG, US, UZ, VC, VN, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

AU 2006285607	A1	20070308	AU 2006-285607	20060831
CA 2620688	A1	20070308	CA 2006-2620688	20060831
JP 2007091733	A	20070412	JP 2006-235401	20060831
EP 1919907	A2	20080514	EP 2006-797580	20060831

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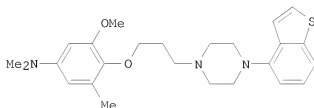
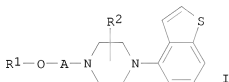
ZA 2008001888	A	20090729	ZA 2008-1888	20060831
SG 155180	A1	20090930	SG 2009-5174	20060831
IN 2008DN01407	A	20080808	IN 2008-DN1407	20080219
KR 2008033446	A	20080416	KR 2008-704418	20080225
MX 2008002736	A	20080326	MX 2008-2736	20080226
CN 101258147	A	20080903	CN 2006-80032043	20080229

PRIORITY APPLN. INFO.:

JP 2005-251055	A	20050831
WO 2006-JP17704	W	20060831
WO 2006-JP317704	W	20060831

OTHER SOURCE(S): MARPAT 146:316939

GI



AB Title compds. I [R1 = cycloalkyl, (un)substituted aryl, heterocyclyl; R2 = H or lower alkyl; A = lower alkylene or lower alkenylene], and their pharmaceutically acceptable salts, are prepared and disclosed as antipsychotic agents for the treatment of mental disorders. Thus, e.g., II·HCl was prepared via nucleophilic substitution of [4-(3-chloropropoxy)-3-methoxy-5-methylphenyl]-carbamic acid tert-Bu ester (preparation given) with 1-benzo[b]thiophen-4-yl-piperazine hydrochloride (preparation given) followed by deprotection and dimethylation. Binding assays were used to determine Ki values for I, e.g., II·HCl demonstrated Ki values of 0.4 nM in Dopamine D2 receptor and 5.9 nM in Serotonin 5-HT2A receptor. Serotonin uptake inhibitory activity of II·HCl was also determined as 95.3%. The invention compds. may be widely used in the treatment and prevention of mental disorders including central nervous system

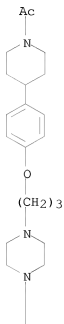
disorders, while demonstrating no side effects.

IT 928226-28-2P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of benzo[b]thiophen-4-yl-piperazine and related compds. as antipsychotic agents for the treatment of mental disorders)

RN 928226-28-2 CAPLUS

CN Ethanone, 1-[4-[4-[3-(4-benzo[b]thien-4-yl-1-piperazinyl)propoxy]phenyl]-1-piperidinyl]- (CA INDEX NAME)

PAGE 1-A



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OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
 (2 CITINGS)

L4 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:1220275 CAPLUS

DOCUMENT NUMBER: 143:460031

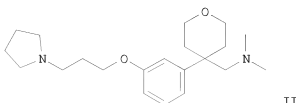
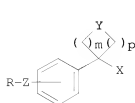
TITLE: Preparation of heterocycle-containing phenol ethers, thioethers and related derivatives as histamine H3 ligands

INVENTOR(S): Bernardelli, Patrick; Cronin, Andrew Michael; Denis, Alexis; Denton, Stephen Martin; Jacobelli, Henry;

PATENT ASSIGNEE(S):
 SOURCE: Kemp, Mark Ian; Lorthiois, Edwige; Rousseau, Fiona;
 Serradeil-Civit, Delphine; Vergne, Fabrice
 Warner-Lambert Company LLC, USA
 PCT Int. Appl., 216 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005108384	A1	20051117	WO 2005-IB1114	20050419
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1593679	A1	20051109	EP 2004-291187	20040507
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR			
AU 2005240846	A1	20051117	AU 2005-240846	20050419
CA 2565852	A1	20051117	CA 2005-2565852	20050419
EP 1747210	A1	20070131	EP 2005-718521	20050419
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, LV, MK, YU			
CN 1950351	A	20070418	CN 2005-80014662	20050419
BR 2005010664	A	20071204	BR 2005-10664	20050419
JP 2007536365	T	20071213	JP 2007-512541	20050419
JP 4173191	B2	20081029		
KR 2006133091	A	20061222	KR 2006-723284	20061106
KR 843848	B1	20080703		
MX 2006012819	A	20070126	MX 2006-12819	20061106
NO 2006005635	A	20070201	NO 2006-5635	20061206
PRIORITY APPLN. INFO.:			EP 2004-291187	A 20040507
			GB 2005-4564	A 20050304
			WO 2005-IB1114	W 20050419

OTHER SOURCE(S): CASREACT 143:460031; MARPAT 143:460031
 GI



AB Title compds. [I; m, p = 0-3; m+p ≤ 4; X = cyano, CH2OH,

alkoxymethyl, CO₂H, alkoxycarbonyl, aminomethyl, aminocarbonyl, CH₂Ohet (het = (substituted) mono- or bicyclic heteroaryl), CH₂het, het; Y = CH₂, CH(OH), CO, N (substituted by H, at al.); ZR is in the meta or para position of the Ph group; Z = O, S, S(O), S(O)₂; R = (cyclo)aminoalkyl; addnl. details are given in the claims], were prepared Thus, reaction of 3-[4-(dimethylamino)methyltetrahydro-2H-pyran-4-yl]phenol (preparation given) with 1-(3-chloropropyl)pyrrolidine (preparation given) gave 20% title compound (II). In a cell-based H3 functional assay measuring cAMP through β -lactamase reporter gene activity, I showed K_i < 5 μ M; values are tabulated for 26 examples of I. I are H3 ligands useful in treating e.g. inflammatory, allergic and respiratory diseases.

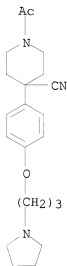
IT 869225-71-8P, 1-Acetyl-4-[4-[3-(pyrrolidin-1-yl)propoxy]phenyl]piperidine-4-carbonitrile
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(claimed compound; preparation of heterocycle-containing phenol ethers, thioethers

and related derivs. as histamine H₃ ligands)

RN 869225-71-8 CAPLUS

CN 4-Piperidinecarbonitrile, 1-acetyl-4-[4-[3-(1-pyrrolidinyl)propoxy]phenyl]-(CA INDEX NAME)



IT 869225-69-4P, tert-Butyl

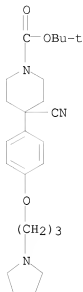
4-cyano-4-[4-[3-(pyrrolidin-1-yl)propoxy]phenyl]piperidine-1-carboxylate

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of heterocycle-containing phenol ethers, thioethers and related derivs. as histamine H₃ ligands)

RN 869225-69-4 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-cyano-4-[4-[3-(1-pyrrolidinyl)propoxy]phenyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD
(4 CITINGS)
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:588898 CAPLUS

DOCUMENT NUMBER: 143:115449

TITLE: Preparation of piperidines as renin inhibitors useful
against hypertension and other disorders

INVENTOR(S): Herold, Peter; Mah, Robert; Stutz, Stefan; Stojanovic,
Aleksandar; Tschinke, Vincenzo; Jotterand, Nathalie

PATENT ASSIGNEE(S): Speedel Experimenta A.-G., Switz.

SOURCE: PCT Int. Appl., 252 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

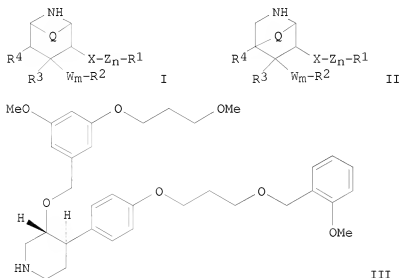
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005061457	A1	20050707	WO 2004-EP52389	20040930
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1670760	A1	20060621	EP 2004-820600	20040930
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,			

IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK
 EP 1961752 A2 20080827 EP 2008-100929 20040930
 EP 1961752 A3 20081119
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
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 US 20070010511 A1 20070111 US 2006-574108 20060331
 US 20090012055 A1 20090108 US 2008-68443 20080206
 PRIORITY APPLN. INFO.: CH 2003-1669 A 20031001
 CH 2004-343 A 20040227
 EP 2004-820600 A3 20040930
 WO 2004-EP52389 W 20040930
 US 2006-574108 A3 20060331

OTHER SOURCE(S): CASREACT 143:115449; MARPAT 143:115449
 GI



AB Novel substituted piperidines (shown as I and II; variables defined below; e.g. trans-4-[4-[3-(2-methoxybenzyloxy)propoxy]phenyl]-3-[[3-methoxy-5-(3-methoxypropoxy)benzyl]oxy]piperidine (shown as III)) are described. The compds. are suitable in particular as renin inhibitors and are highly potent. A test that measures the formation of angiotensin I in human plasma revealed that I exhibit inhibiting actions in the in vitro systems at min. concns. of .apprx.10⁻⁶ to .apprx.10⁻¹⁰ mol/L. Compds. I effectively reduce blood pressure in an in vivo test involving normotensive marmosets at doses of .apprx.0.003 to .apprx.0.3 mg/kg i.v. and at doses of .apprx.0.3 to .apprx.30 mg/kg p.o. For I: R1 is (un)substituted oxazolyl, indolyl, pyrrolyl, pyrazolyl, triazinyl, 2-oxodihydrobenzo[d][1,3]oxazinyl, 4-oxodihydroimidazolyl, 5-oxo-4H-[1,2,4]triazinyl, 3-oxo-4H-benzo[1,4]thiazinyl, tetrahydroquinoxalanyl, 1,1,3-trioxodihydro-2H-1λ6-benzo[1,4]thiazinyl, 1-oxopyridyl, dihydro-2H-benzo[1,4]oxazinyl, 2-oxotetrahydrobenzo[e][1,4]diazepinyl, etc. For II: R1 is aryl or heteroaryl. For I and II: R2 is (un)substituted Ph, naphthyl, acenaphthyl, cyclohexyl, pyridyl, pyrimidinyl, pyrazinyl, oxopyridinyl, diazinyl, triazolyl, thienyl, oxadiazolyl, thiazolyl, pyrrolyl, furyl, tetrazolyl or imidazolyl; R3 is H, hydroxy, C1-6-alkoxy or

C2-6-alkenyloxy; R4 is H, C1-6-alkyl, C2-6-alkenyl, C1-6-alkoxy, hydroxy-C1-6-alkyl, C1-6-alkoxy-C1-6-alkyl, benzyl, oxo, etc.; or R3 and R4 in I together are a bond. Q is ethylene or is absent for I or is ethylene or methylene for II; X is a bond, O or S, or is a >CHR11, >CHOR9, -OCO-, >CO, >C=NOR10, -OCHR11- or -OCHR11-CO-NR9- group and the bond starting from an O or S atom leads to a saturated C atom of the Z group or to R1; W is O or S; Z is C1-6-alkylene, C2-6-alkenyloxy, hydroxy-C1-6-alkylidene, -O-, -S-, -O-alk-, -S-alk-, -alk-O-, -alk-S- or -alk-NR9-, where alk is C1-6-alkylene; n = 0-1; m = 0-1; addnl. details including provisos are given in the claims. Although the methods of preparation are not claimed, example preps. and/or characterization data for 360 I and II are included. For example, III was prepared from by deprotection of tert-Bu 4-[4-(3-benzoyloxypropoxy)phenyl]-3-[[[3-(3-methoxypropoxy)phenyl]methoxy]piperidine-1-carboxylate, which was prepared by ether formation between tert-Bu 3-hydroxy-4-[4-[3-(2-methoxybenzyloxy)propoxy]phenyl]piperidine-1-carboxylate and 1-chloromethyl-3-methoxy-5-(3-methoxypropoxy)benzene using NaH in DMF.

II 857273-93-9P, tert-Butyl (3R,4R)-3-[1-(3-methoxypropyl)-2-oxo-1,2,3,4-tetrahydroquinolin-7-ylmethoxy]-4-[4-[4-(3-methylindol-1-yl)butoxy]phenyl]piperidine-1-carboxylate 857276-32-5P, tert-Butyl (3R,4R)-3-[1-(3-methoxypropyl)-2-oxo-1,2,3,4-tetrahydroquinolin-7-ylmethoxy]-4-[4-[4-[(5-methoxypyrimidin-4-yl)amino]butoxy]phenyl]piperidine-1-carboxylate 857276-33-6P, tert-Butyl (3R,4R)-4-[4-(4-aminobutoxy)phenyl]-3-[[1-(3-methoxypropyl)-2-oxo-1,2,3,4-tetrahydroquinolin-7-yl]methoxy]piperidine-1-carboxylate 857276-36-9P, tert-Butyl (3R,4R)-3-[1-(3-methoxypropyl)-2-oxo-1,2,3,4-tetrahydroquinolin-7-ylmethoxy]-4-[4-[4-[(3-methoxypyridin-2-yl)amino]butoxy]phenyl]piperidine-1-carboxylate 857278-22-9P, Benzyl (3R,4R)-4-[4-[2-(3-fluorobenzoylamino)ethoxy]phenyl]-3-[[4-(3-methoxypropyl)-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl]methoxy]piperidine-1-carboxylate 857278-23-0P, Benzyl (3R,4R)-4-[4-(2-aminoethoxy)phenyl]-3-[[4-(3-methoxypropyl)-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl]methoxy]piperidine-1-carboxylate 857278-25-2P, Benzyl (3R,4R)-4-[4-(2-aminoethoxy)phenyl]-3-[[4-(3-methoxypropyl)-3-oxo-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl]methoxy]piperidine-1-carboxylate 857278-26-3P, Benzyl (3R,4R)-4-[4-[2-[(tert-butoxycarbonyl)amino]ethoxy]phenyl]-3-[[4-(3-methoxypropyl)-3-oxo-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl]methoxy]piperidine-1-carboxylate 857279-00-6P, Benzyl (3R,4R)-4-[4-[2-[(cyclohexylmethyl)amino]ethoxy]phenyl]-3-[[4-(3-methoxypropyl)-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl]methoxy]piperidine-1-carboxylate 857280-36-5P, Benzyl (3R,4R)-4-[4-[4-[(2S)-2-[(benzyloxycarbonyl)amino]-4-phenylbutoxy]phenyl]-3-[[4-(3-methoxypropyl)-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl]methoxy]piperidine-1-carboxylate 857280-74-1P, Benzyl (3R,4R)-4-[4-[2-[[2-(4-fluorophenyl)ethyl]amino]ethoxy]phenyl]-3-[[4-(3-methoxypropyl)-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl]methoxy]piperidine-1-carboxylate 857280-79-6P, Benzyl (3R,4R)-4-[4-[2-[[2-(2-fluorophenyl)ethyl]amino]ethoxy]phenyl]-3-[[4-(3-methoxypropyl)-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl]methoxy]piperidine-1-carboxylate 857280-80-9P, Benzyl (3R,4R)-4-[4-[2-[[2-(2-fluorophenyl)acetyl]amino]ethoxy]phenyl]-3-[[4-(3-methoxypropyl)-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl]methoxy]piperidine-1-carboxylate 857281-01-7P, Benzyl (3R,4R)-3-[4-(3-methoxypropyl)-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl]methoxy]-4-[4-[2-(3-phenylpyrrolidin-1-yl)ethoxy]phenyl]piperidine-1-carboxylate 857281-58-4P, Benzyl (3R,4R)-4-[4-[3-(2,5-difluorophenylamino)propoxy]phenyl]-3-[[4-(3-

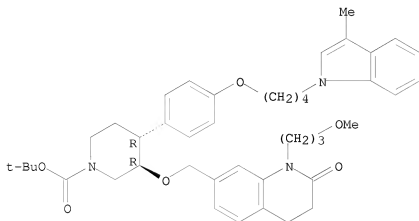
methoxypropyl)-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl]methoxy]piperidine-1-carboxylate 857281-67-5P, Benzyl (3R,4R)-4-[4-(2-dimethylaminoethoxy)phenyl]-3-[[4-(3-methoxypropyl)-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl]methoxy]piperidine-1-carboxylate 857281-75-5P, Benzyl (3R,4R)-4-[4-(3-dimethylaminopropoxy)phenyl]-3-[[4-(3-methoxypropyl)-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl]methoxy]piperidine-1-carboxylate
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of piperidines as renin inhibitors useful against hypertension and other disorders)

RN 857273-93-9 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-[4-(3-methyl-1H-indol-1-yl)butoxy]phenyl]-3-[[1,2,3,4-tetrahydro-1-(3-methoxypropyl)-2-oxo-7-quinoliny]methoxy]-, 1,1-dimethylethyl ester, (3R,4R)- (CA INDEX NAME)

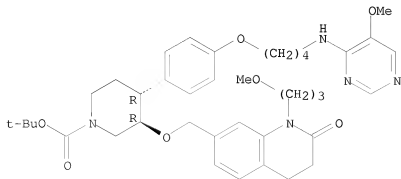
Absolute stereochemistry.



RN 857276-32-5 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-[4-[(5-methoxy-4-pyrimidinyl)amino]butoxy]phenyl]-3-[[1,2,3,4-tetrahydro-1-(3-methoxypropyl)-2-oxo-7-quinoliny]methoxy]-, 1,1-dimethylethyl ester, (3R,4R)- (CA INDEX NAME)

Absolute stereochemistry.

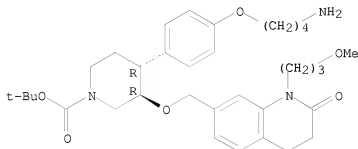


RN 857276-33-6 CAPLUS

10/551,985

CN 1-Piperidinecarboxylic acid, 4-[4-(4-aminobutoxy)phenyl]-3-[[1,2,3,4-tetrahydro-1-(3-methoxypropyl)-2-oxo-7-quinolinyl]methoxy]-, 1,1-dimethylethyl ester, (3R,4R)- (CA INDEX NAME)

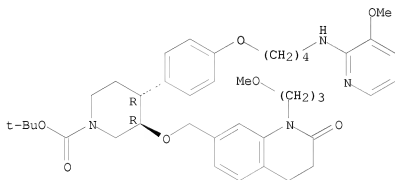
Absolute stereochemistry.



RN 857276-36-9 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-[4-[(3-methoxy-2-pyridinyl)amino]butoxy]phenyl]-3-[[1,2,3,4-tetrahydro-1-(3-methoxypropyl)-2-oxo-7-quinolinyl]methoxy]-, 1,1-dimethylethyl ester, (3R,4R)- (CA INDEX NAME)

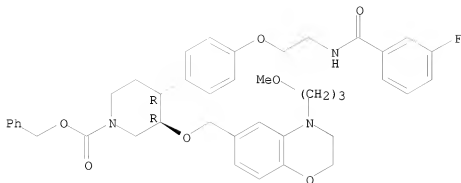
Absolute stereochemistry.



RN 857278-22-9 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[2-[(3-fluorobenzoyl)amino]ethoxy]phenyl]-, phenylmethyl ester, (3R,4R)- (CA INDEX NAME)

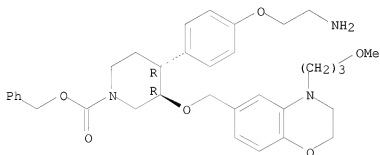
Absolute stereochemistry.



RN 857278-23-0 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-(2-aminoethoxy)phenyl]-3-[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-, phenylmethyl ester, (3R,4R)- (CA INDEX NAME)

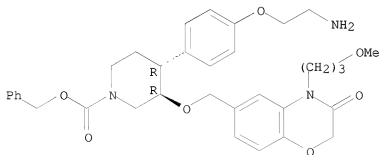
Absolute stereochemistry.



RN 857278-25-2 CAPLUS

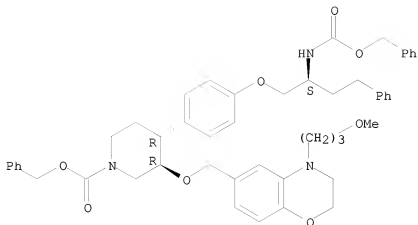
CN 1-Piperidinecarboxylic acid, 4-[4-(2-aminoethoxy)phenyl]-3-[[3,4-dihydro-4-(3-methoxypropyl)-3-oxo-2H-1,4-benzoxazin-6-yl]methoxy]-, phenylmethyl ester, (3R,4R)- (CA INDEX NAME)

Absolute stereochemistry.



RN 857278-26-3 CAPLUS

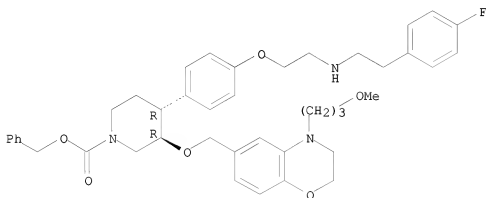
CN 1-Piperidinecarboxylic acid, 3-[[3,4-dihydro-4-(3-methoxypropyl)-3-oxo-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[2-[(1,1-dimethylethoxy)carbonyl]amino]ethoxy]phenyl]-, phenylmethyl ester, (3R,4R)- (CA INDEX NAME)



RN 857280-74-1 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[2-[[2-(4-fluorophenyl)ethyl]amino]ethoxy]phenyl]-, phenylmethyl ester, (3R,4R)-(CA INDEX NAME)

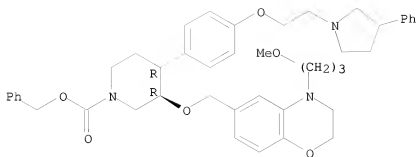
Absolute stereochemistry.



RN 857280-79-6 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[2-[[2-(4-fluorophenyl)ethyl]amino]ethoxy]phenyl]-, phenylmethyl ester, (3R,4R)-(CA INDEX NAME)

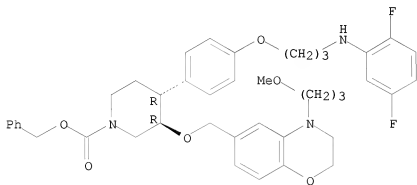
Absolute stereochemistry.



RN 857281-58-4 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-[3-[(2,5-difluorophenyl)amino]propoxy]phenyl]-3-[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-, phenylmethyl ester, (3R,4R)- (CA INDEX NAME)

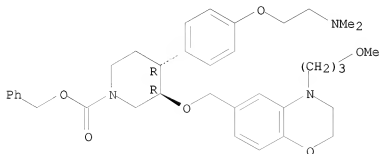
Absolute stereochemistry.



RN 857281-67-5 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[2-(dimethylamino)ethoxy]phenyl]-, phenylmethyl ester, (3R,4R)- (CA INDEX NAME)

Absolute stereochemistry.

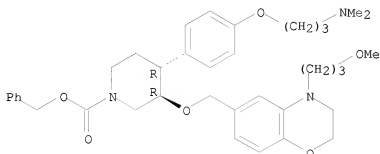


RN 857281-75-5 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[3-(dimethylamino)propoxy]phenyl]-, phenylmethyl ester, (3R,4R)- (CA INDEX NAME)

phenylmethyl ester, (3R,4R)- (CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT: 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS)

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2009 ACS ON STN

ACCESSION NUMBER: 2004:878289 CAPLUS

DOCUMENT NUMBER: 141:366134

TITLE: Preparation of
4-(4-(heterocyclylalkoxy)phenyl)-1-(heterocyclyl-carbonyl)piperidine derivatives and related compounds
as histamine H3 antagonists for the treatment of
neurological diseases such as Alzheimer's

INVENTOR(S): Bamford, Mark James; Dean, David Kenneth; Wilson, David Matthew

PATENT ASSIGNEE(S): Glaxo Group Limited, UK

SOURCE: PCI Int. Appl., 45 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

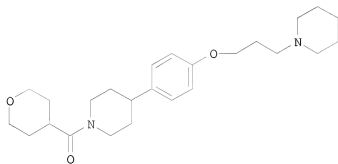
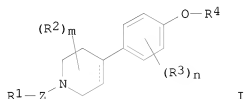
PATENT INFORMATION:

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RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, BG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004228949	A1	20041021	AU 2004-228949	20040408
AU 2004228949	B2	20061102		
CA 2521899	A1	20041021	CA 2004-2521899	20040408
EP 1610786	A1	20060104	EP 2004-726514	20040408
EP 1610786	B1	20070620		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
BR 2004009110	A	20060328	BR 2004-9110	20040408
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JP 2006522771	T	20061005	JP 2006-505136	20040408
AT 365039	T	20070715	AT 2004-726514	20040408
ES 2288681	T3	20080116	ES 2004-726514	20040408
ZA 2005007795	A	20060726	ZA 2005-7795	20050927
IN 2005DN04435	A	20070928	IN 2005-DN4435	20050930
US 20060205774	A1	20060914	US 2005-551985	20051004
US 20060293298	A1	20061228	US 2005-246480	20051007
NO 2005005256	A	20060110	NO 2005-5256	20051109
PRIORITY APPLN. INFO.:			GB 2003-8333	A 20030410
			WO 2004-EP3985	W 20040408
			GB 2005-10731	A 20050525
			US 2005-551985	A2 20051004

OTHER SOURCE(S): MARPAT 141:366134

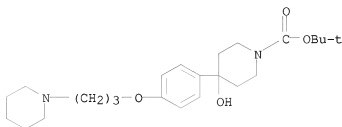
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AB The present invention provides, in a first aspect, a compound of formula I [R1 = (un)substituted-C1-6alkyl-O-C1-6alkyl, -C3-8cycloalkyl, -aryl, -heterocyclyl, -heteroaryl, etc.; X = bond, O, CO, OCH2, CH2O or SO2; Z represents CO, CONR10 or SO2; R10 represents H, C1-6alkyl, -C3-8cycloalkyl, aryl, heterocyclyl, heteroaryl; m and n independently = 0, 1 or 2; R2 = H, C1-6alkyl or C1-6alkoxy; R3 represents halo, C1-6alkyl, OH, C1-6alkoxy, CN, amino, -COC1-6alkyl, -SO2C1-6alkyl or F3C; R4 = heterocyclyl or heterocyclylalkyl] or a pharmaceutically acceptable salt thereof, and methods to prepare I. Thus, e.g., II was prepared via amidation of 1-(3-([4-(4-piperidinyl)phenyl]oxy)propyl)piperidine (preparation given) with tetrahydropyran-4-carboxylic acid. I and their pharmaceutically acceptable salts have affinity for and are antagonists and/or inverse agonists of the histamine H3 receptor and are believed to be of potential use in the treatment of neurol. diseases including Alzheimer's disease. I were tested in the histamine H3 functional antagonist assay and exhibited pKb values > 8.0.

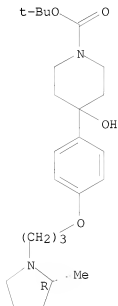
10/551,985

IT 778642-43-6P 778642-48-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(intermediate; preparation or arylpiperidine derivs. as histamine H3 antagonists)
RN 778642-43-6 CAPLUS
CN 1-Piperidinecarboxylic acid, 4-hydroxy-4-[4-[3-(1-piperidinyl)propoxy]phenyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



RN 778642-48-1 CAPLUS
CN 1-Piperidinecarboxylic acid, 4-hydroxy-4-[4-[3-[(2R)-2-methyl-1-pyrrolidinyl]propoxy]phenyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

Absolute stereochemistry.



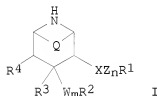
OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2009 ACS ON STN
ACCESSION NUMBER: 2002:754196 CAPLUS
DOCUMENT NUMBER: 137:257677
TITLE: Methods of treating or preventing Alzheimer's disease using 4-aryl-3-aralkoxypiperidines and -azabicyclooctanes

INVENTOR(S): Nieman, James A.; Fang, Lawrence; Jagodzinska, Barbara
 PATENT ASSIGNEE(S): Elan Pharmaceuticals, Inc., USA; Pharmacia & Upjohn Company
 SOURCE: PCT Int. Appl., 449 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002076440	A2	20021003	WO 2002-US9100	20020321
WO 2002076440	A3	20021128		
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OTHER SOURCE(S): MARPAT 137:257677
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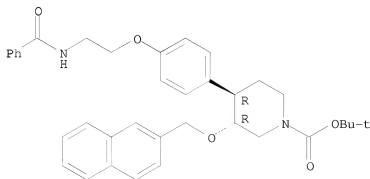


AB Disclosed are methods for treating or preventing Alzheimer's disease, and other diseases, and/or inhibiting β -secretase enzyme, and/or inhibiting deposition of A beta peptide in a mammal, using 3,4-disubstituted piperidinyl compds. (I) wherein the variables R1, R2, R3, R4, Q, W, X, Z, m, and n are defined below. Although neither the compds. nor the methods of preparation are claimed, .apprx.150 example prepsns., translations from the German examples of patent WO 9709311, are included. I inhibit β -secretase with IC50 < 50 μ M; compds. that are effective inhibitors of β -secretase activity demonstrate reduced cleavage of the substrate as compared to a control. In I, R1 is aryl, heterocycle; R2 is Ph, naphthyl, acenaphthyl, cyclohexyl, pyridyl, pyrimidinyl, pyrazinyl, oxopyridinyl, diazinyl, triazolyl, thienyl, oxazolyl, oxadiazolyl, thiazolyl, pyrrolyl, or furyl, optionally substituted. R3 is: H, hydroxy, lower-alkoxy, or lower-alkenyl; R4 is: H, lower-alkyl, lower-alkenyl, lower-alkoxy, hydroxy-lower-alkyl, lower-alkoxy-lower-alkyl, benzyl, oxo, or where R3 and R4 together are a bond, or as specified in the claims. Q is: ethylene, or is absent; X is: a bond, -O-, -S-, -CH-R11- (R11 defined in claims), -CHOR9- (R9 defined in

claims), -OCO-, -CO-, or C:NOR10- (R10 is carboxyalkyl, alkoxy-carbonylalkyl, alkyl or H), with the bond emanating from an O or S atom joining to a saturated C atom of group Z or to R1; W is: -O-, or -S-, Z is: lower-alkylene, lower-alkenylene, hydroxy-lower-alkylidene, -O-, -S-, -O-Alk- (Alk is a lower alkylene), -S-Alk-, -Alk-O-, or -Alk-S. N is: 1, or 0 or 1 when X is -O-CO-; and where m is 0 or 1; with provisos. [This abstract record is one of 2 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

- IT 188867-34-7P, 1-Piperidinecarboxylic acid, 4-[4-[2-(benzoylamino)ethoxy]phenyl]-3-(2-naphthalenylmethoxy)-, 1,1-dimethylethyl ester, trans- 188867-35-8P, 1-Piperidinecarboxylic acid, 3-(2-naphthalenylmethoxy)-4-[4-[2-(1H-1,2,4-triazol-1-yl)ethoxy]phenyl]-, 1,1-dimethylethyl ester, trans- 188867-38-1P, 1-Piperidinecarboxylic acid, 4-[4-(2-azidoethoxy)phenyl]-3-(2-naphthalenylmethoxy)-, 1,1-dimethylethyl ester, trans- 188867-39-2P, 1-Piperidinecarboxylic acid, 4-[4-(2-aminoethoxy)phenyl]-3-(2-naphthalenylmethoxy)-, 1,1-dimethylethyl ester, (3R,4R)-rel- 188867-57-4P, 1-Piperidinecarboxylic acid, 4-[4-[3-(methylamino)propoxy]phenyl]-3-(2-naphthalenylmethoxy)-, 1,1-dimethylethyl ester, trans- 188867-58-5P, 1-Piperidinecarboxylic acid, 4-[4-[3-(benzoylmethylamino)propoxy]phenyl]-3-(2-naphthalenylmethoxy)-, 1,1-dimethylethyl ester, trans- 188867-78-9P, 1-Piperidinecarboxylic acid, 4-[4-[3-(4-morpholinyl)propoxy]phenyl]-3-(2-naphthalenylmethoxy)-, 1,1-dimethylethyl ester, trans- 188870-87-3P, 1-Piperidinecarboxylic acid, 4-[4-[3-methyl(phenylmethyl)amino]propoxy]phenyl]-3-(2-naphthalenylmethoxy)-, 1,1-dimethylethyl ester, trans- 188871-02-5P, 1-Piperidinecarboxylic acid, 3-(2-naphthalenylmethoxy)-4-[4-[2-oxo-2-[(phenylmethyl)amino]ethoxy]phenyl]-, 1,1-dimethylethyl ester, trans- 188876-34-8P, 1-Piperidinecarboxylic acid, 4-[4-[2-hydroxy-3-[[4-(methylphenyl)sulfonyl]amino]propoxy]phenyl]-3-(2-naphthalenylmethoxy)-, 1,1-dimethylethyl ester, (3 α ,4 β)-[partial]-
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (methods of treating or preventing Alzheimer's and other diseases using 4-aryl-3-aralkoxypiperidines and -azabicyclooctanes)
 RN 188867-34-7 CAPLUS
 CN 1-Piperidinecarboxylic acid, 4-[4-[2-(benzoylamino)ethoxy]phenyl]-3-(2-naphthalenylmethoxy)-, 1,1-dimethylethyl ester, (3R,4R)-rel- (CA INDEX NAME)

Relative stereochemistry.

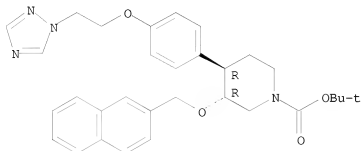


10/551,985

RN 188867-35-8 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-(2-naphthalenylmethoxy)-4-[4-(2-(1H-1,2,4-triazol-1-yl)ethoxy)phenyl]-, 1,1-dimethylethyl ester, (3R,4R)-rel- (CA INDEX NAME)

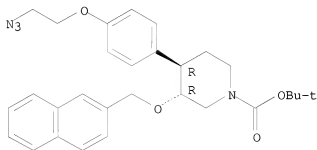
Relative stereochemistry.



RN 188867-38-1 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-(2-azidoethoxy)phenyl]-3-(2-naphthalenylmethoxy)-, 1,1-dimethylethyl ester, (3R,4R)-rel- (CA INDEX NAME)

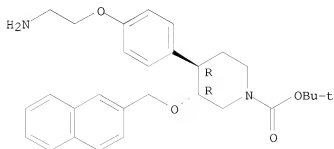
Relative stereochemistry.



RN 188867-39-2 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-(2-aminoethoxy)phenyl]-3-(2-naphthalenylmethoxy)-, 1,1-dimethylethyl ester, (3R,4R)-rel- (CA INDEX NAME)

Relative stereochemistry.

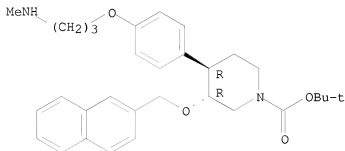


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RN 188867-57-4 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-[3-(methylamino)propoxy]phenyl]-3-(2-naphthalenylmethoxy)-, 1,1-dimethylethyl ester, (3R,4R)-rel- (CA INDEX NAME)

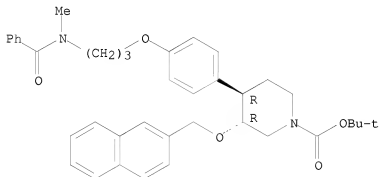
Relative stereochemistry.



RN 188867-58-5 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-[3-(benzoylmethylamino)propoxy]phenyl]-3-(2-naphthalenylmethoxy)-, 1,1-dimethylethyl ester, (3R,4R)-rel- (CA INDEX NAME)

Relative stereochemistry.

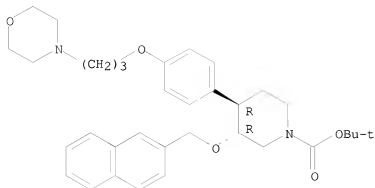


RN 188867-78-9 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-[3-(4-morpholinyl)propoxy]phenyl]-3-(2-naphthalenylmethoxy)-, 1,1-dimethylethyl ester, (3R,4R)-rel- (CA INDEX NAME)

Relative stereochemistry.

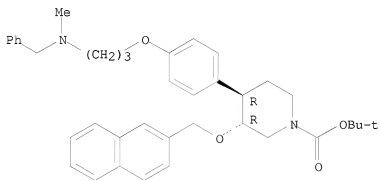
10/551,985



RN 188870-87-3 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-[3-methyl(phenylmethyl)amino]propoxy]phenyl]-3-(2-naphthalenylmethoxy)-, 1,1-dimethylethyl ester, (3R,4R)-rel- (CA INDEX NAME)

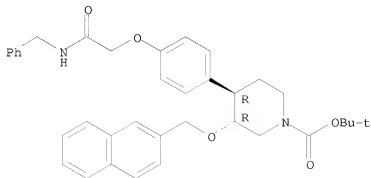
Relative stereochemistry.



RN 188871-02-5 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-(2-naphthalenylmethoxy)-4-[4-[2-oxo-2-[(phenylmethyl)amino]ethoxy]phenyl]-, 1,1-dimethylethyl ester, (3R,4R)-rel- (CA INDEX NAME)

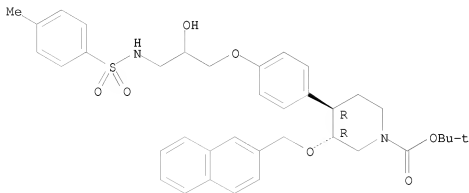
Relative stereochemistry.



RN 188876-34-8 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-[2-hydroxy-3-[(4-methylphenyl)sulfonyl]amino]propoxy]phenyl]-3-(2-naphthalenylmethoxy)-, 1,1-dimethylethyl ester, (3R,4R)-rel- (CA INDEX NAME)

Relative stereochemistry.



OS.CITING REF COUNT: 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS)
 REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2000:241182 CAPLUS

DOCUMENT NUMBER: 132:279115

TITLE: N-Phenylpiperidinylbutyl naphthalenecarboxamides as tachykinin receptor antagonists

INVENTOR(S): Bernstein, Peter Robert; Dedinas, Robert Frank; Ohnmacht, Cyrus John; Russell, Keith; Shewood, Scott Alan

PATENT ASSIGNEE(S): Zeneca Limited, UK

SOURCE: PCT Int. Appl., 89 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

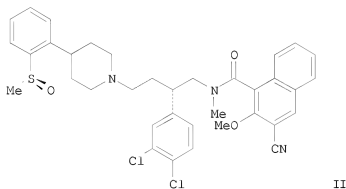
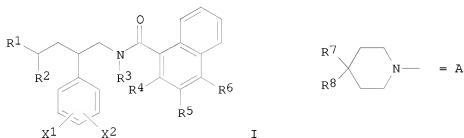
FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

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WO 2000020389	A1	20000413	WO 1999-GB3274	19991004
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
IN 1999DE01335	A	20050701	IN 1999-DE1335	19990910
CA 2345133	A1	20000413	CA 1999-2345133	19991004
AU 9961111	A	20000426	AU 1999-61111	19991004
AU 767002	B2	20031030		
EP 1119551	A1	20010801	EP 1999-947738	19991004

EP 1119551 B1 20041229
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO
 BR 9915904 A 20010821 BR 1999-15904 19991004
 JP 2002526527 T 20020820 JP 2000-574506 19991004
 NZ 510582 A 20030829 NZ 1999-510582 19991004
 EP 1433783 A2 20040630 EP 2004-6920 19991004
 EP 1433783 A3 20040714
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 IE, LT, LV, FI, MK, CY
 AT 286022 T 20050115 AT 1999-947738 19991004
 ZA 2001002651 A 20020701 ZA 2001-2651 20010330
 NO 2001001765 A 20010607 NO 2001-1765 20010406
 MX 2001003559 A 20010731 MX 2001-3559 20010406
 PRIORITY APPLN. INFO.: GB 1998-21699 A 19981007
 GB 1999-6278 A 19990317
 GB 1999-9839 A 19990430
 EP 1999-947738 A3 19991004
 WO 1999-GB3274 W 19991004

OTHER SOURCE(S): MARPAT 132:279115
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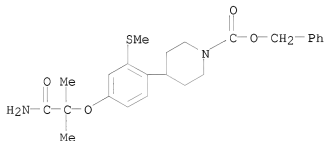
AB The title compds. (I) [wherein R1 = :O, ORa, OC(O)Rb, or A; R2 = H or ORc; or R1 and R2 together form -O(CH2)mO-; R3 = H or alkyl; R4 = OH, halo, alkoxy, (cyano)alkyl, alkenyl, alkynyl, carboxy, alkoxycarbonyl, (alkyl)carbamoyl, alkanoyl(amino), or aminosulfonyl; R5 = CN, NO2, OCF3, CF3, alkylsulfonyl, or R4; or R4 and R5 together form -OCH2O- or -O(CH2)2O-; R6 = H or R5; R7 = substituted Ph; R8 = H, OH, alkoxy, alkanoyl(oxy), alkoxycarbonyl, alkanoylamino, alkyl, or (alkyl)carbamoyl; R1 = H or alkyl; Rb = alkyl or aryl(alkyl); Rc = alkyl; m = 2-4; X1 and X2

= independently H or halogen], and their pharmaceutically acceptable salts, were prepared as antagonists of neurokinin 1 (NK1) and neurokinin 2 (NK2) receptor activity. For example, 2-methoxy-3-cyano-1-naphthoyl chloride (6-step preparation given) was amidated with N-[(S)-2-(3,4-dichlorophenyl)-4-[4-[(S)-2-methylsulfinylphenyl]-1-piperidinyl]butyl]-N-methylamine (2-step preparation given) to give the naphthalenecarboxamide, which was converted to the citrate salt, 11.citrate. In rabbit pulmonary artery tests, 11.citrate antagonized the action of NK1 and NK2 with apparent dissociation consts. of 9.5 and 7.3, resp. I are particularly useful in the treatment of diseases in which Substance P and Neurokinin A are implicated, e.g. asthma, anxiety, depression, emesis, urinary incontinence, and related conditions (no data).

IT 263862-61-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; preparation of N-phenylpiperidinylbutyl naphthalenecarboxamide tachykinin receptor antagonists by amidation of naphthoyl chlorides)

RN 263862-61-9 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-(2-amino-1,1-dimethyl-2-oxoethoxy)-2-(methylthio)phenyl]-, phenylmethyl ester (CA INDEX NAME)



OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1999:348249 CAPLUS

DOCUMENT NUMBER: 131:102177

TITLE: Substituted piperidines - highly potent renin inhibitors due to induced fit adaptation of the active site

AUTHOR(S): Vieira, Eric; Binggeli, Alfred; Breu, Volker; Bur, Daniel; Fischli, Walter; Guller, Rolf; Hirth, Georges; Marki, Hans Peter; Muller, Marcel; Oefner, Christian; Scalone, Michelangelo; Stadler, Heinz; Wilhelm, Maurice; Wostl, Wolfgang

CORPORATE SOURCE: Pharma Research Departments, F. Hoffmann-La Roche Ltd, Basel, CH-4070, Switz.

SOURCE: Bioorganic & Medicinal Chemistry Letters (1999), 9(10), 1397-1402

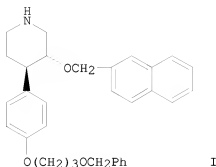
CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



AB The identification, synthesis and activity of a novel class of piperidine renin inhibitors, e.g., I, is presented. The most active compds. show activities in the picomolar range and are among the most potent renin inhibitors ever identified.

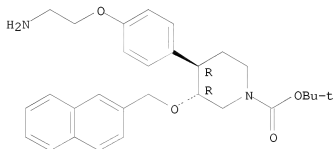
IT 188867-39-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(piperidine renin inhibitors)

RN 188867-39-2 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-(2-aminoethoxy)phenyl]-3-(2-naphthalenylmethoxy)-, 1,1-dimethylethyl ester, (3R,4R)-rel- (CA INDEX NAME)

Relative stereochemistry.



OS.CITING REF COUNT: 71 THERE ARE 71 CAPLUS RECORDS THAT CITE THIS RECORD (71 CITINGS)
REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1997:307688 CAPLUS

DOCUMENT NUMBER: 126:277402

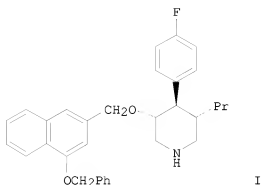
ORIGINAL REFERENCE NO.: 126:53775a, 53778a

TITLE: New 4-aryl-3-aralkoxypiperidines and -azabicyclooctanes for treating heart and kidney insufficiency
INVENTOR(S): Binggeli, Alfred; Breu, Volker; Bur, Daniel; Fischli, Walter; Gueller, Rolf; Hirth, Georges; Maerki, Hans-Peter; Mueller, Marcel; Oefner, Christian; Stadler, Heinz; Vieira, Eric; Wilhelm, Maurice; Wostl,

PATENT ASSIGNEE(S): Wolfgang
 SOURCE: F. Hoffmann-La Roche Ag, Switz.
 PCT Int. Appl., 492 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9709311	A1	19970313	WO 1996-EP3803	19960829
W: AU, BR, CA, CN, CZ, HU, IL, JP, KR, MX, NO, NZ, PL, RU, SG, TR				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
IN 1996MA01426	A	20050304	IN 1996-MA1426	19960813
CA 2230931	A1	19970313	CA 1996-2230931	19960829
CA 2230931	C	20090519		
AU 9667432	A	19970327	AU 1996-67432	19960829
AU 708616	B2	19990805		
EP 863875	A1	19980916	EP 1996-927715	19960829
EP 863875	B1	20030604		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
CN 1202152	A	19981216	CN 1996-197674	19960829
CN 1256326	C	20060517		
JP 11500447	T	19990112	JP 1997-510837	19960829
JP 3648251	B2	20050518		
BR 9610385	A	19990706	BR 1996-10385	19960829
HU 9900926	A2	19990928	HU 1999-926	19960829
HU 9900926	A3	20021228		
NZ 315677	A	20000228	NZ 1996-315677	19960829
RU 2167865	C2	20010527	RU 1998-106388	19960829
AT 242213	T	20030615	AT 1996-927715	19960829
IL 123293	A	20030624	IL 1996-123293	19960829
CZ 292327	B6	20030917	CZ 1998-684	19960829
ES 2201192	T3	20040316	ES 1996-927715	19960829
PL 193686	B1	20070330	PL 1996-325425	19960829
ZA 9607424	A	19970307	ZA 1996-7424	19960902
TW 474932	B	20020201	TW 1996-85110684	19960902
NO 9800954	A	19980428	NO 1998-954	19980305
NO 310069	B1	20010514		
US 6051712	A	20000418	US 1999-255185	19990222
HK 1016177	A1	20060901	HK 1999-101299	19990330
US 6150526	A	20001121	US 1999-456283	19991207
PRIORITY APPLN. INFO.:			CH 1995-2548	A 19950907
			CH 1996-1876	A 19960726
			WO 1996-EP3803	W 19960829
			US 1996-711339	A3 19960906
			US 1999-255185	A1 19990222

OTHER SOURCE(S): MARPAT 126:277402
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AB New piperidine and azabicyclooctane derivs. (> 1000 compds.) are renin inhibitors for treatment of high blood pressure, heart and kidney insufficiency. Thus, the piperidine derivative I was prepared from 1-benzyl-3-propyl-4-piperidinone by reaction with 4-FC6H4Br, followed by 1-benzyloxy-3-chloromethylnaphthalene and deblocking. I had a renin-inhibiting IC50 of 0.317 μ M.

IT 188867-34-7P 188867-35-8P 188867-38-1P
 188867-39-2P 188867-57-4P 188867-58-5P
 188867-78-9P 188870-87-3P 188871-02-5P
 188876-34-8P

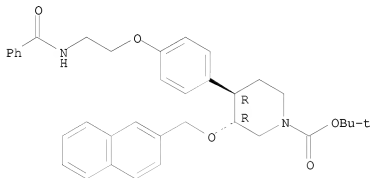
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of piperidine and azabicyclooctane derivs. as renin inhibitors)

RN 188867-34-7 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-[2-(benzoylamino)ethoxy]phenyl]-3-(2-naphthalenylmethoxy)-, 1,1-dimethylethyl ester, (3R,4R)-rel- (CA INDEX NAME)

Relative stereochemistry.

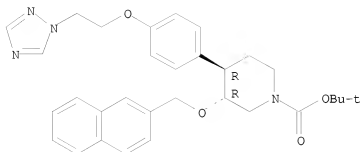


RN 188867-35-8 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-(2-naphthalenylmethoxy)-4-[4-[2-(1H-1,2,4-triazol-1-yl)ethoxy]phenyl]-, 1,1-dimethylethyl ester, (3R,4R)-rel- (CA INDEX NAME)

Relative stereochemistry.

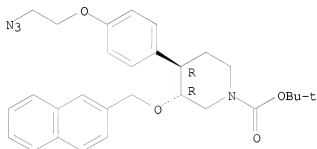
10/551,985



RN 188867-38-1 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-(2-azidoethoxy)phenyl]-3-(2-naphthalenylmethoxy)-, 1,1-dimethylethyl ester, (3R,4R)-rel- (CA INDEX NAME)

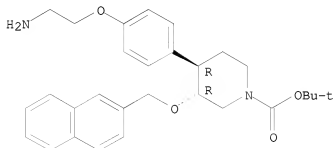
Relative stereochemistry.



RN 188867-39-2 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-(2-aminoethoxy)phenyl]-3-(2-naphthalenylmethoxy)-, 1,1-dimethylethyl ester, (3R,4R)-rel- (CA INDEX NAME)

Relative stereochemistry.

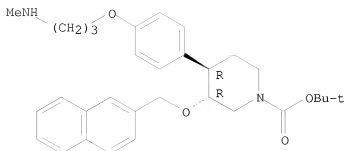


RN 188867-57-4 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-[3-(methylamino)propoxy]phenyl]-3-(2-naphthalenylmethoxy)-, 1,1-dimethylethyl ester, (3R,4R)-rel- (CA INDEX NAME)

Relative stereochemistry.

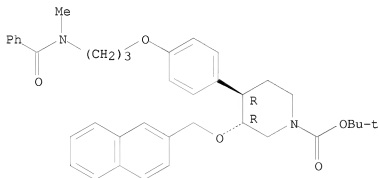
10/551,985



RN 188867-58-5 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-[3-(benzoylmethylamino)propoxy]phenyl]-3-(2-naphthalenylmethoxy)-, 1,1-dimethylethyl ester, (3R,4R)-rel- (CA INDEX NAME)

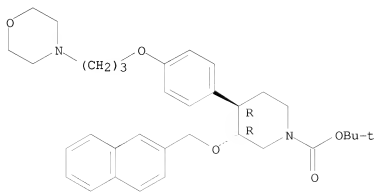
Relative stereochemistry.



RN 188867-78-9 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-[3-(4-morpholinyl)propoxy]phenyl]-3-(2-naphthalenylmethoxy)-, 1,1-dimethylethyl ester, (3R,4R)-rel- (CA INDEX NAME)

Relative stereochemistry.

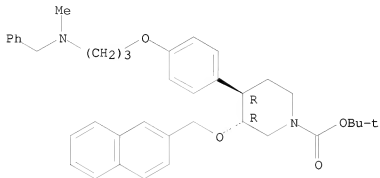


RN 188870-87-3 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-[3-

[methyl(phenylmethyl)amino]propoxy]phenyl]-3-(2-naphthalenylmethoxy)-, 1,1-dimethylethyl ester, (3R,4R)-rel- (CA INDEX NAME)

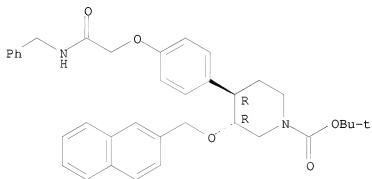
Relative stereochemistry.



RN 188871-02-5 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-(2-naphthalenylmethoxy)-4-[4-[2-oxo-2-[(phenylmethyl)amino]ethoxy]phenyl]-, 1,1-dimethylethyl ester, (3R,4R)-rel- (CA INDEX NAME)

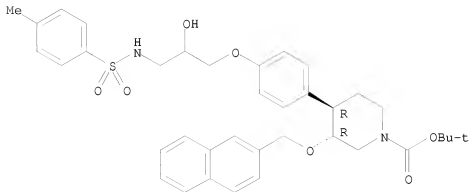
Relative stereochemistry.



RN 188876-34-8 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-[2-hydroxy-3-[[4-(methylphenyl)sulfonyl]amino]propoxy]phenyl]-3-(2-naphthalenylmethoxy)-, 1,1-dimethylethyl ester, (3R,4R)-rel- (CA INDEX NAME)

Relative stereochemistry.

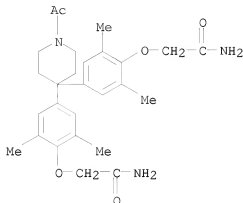


OS.CITING REF COUNT: 45 THERE ARE 45 CAPLUS RECORDS THAT CITE THIS RECORD (50 CITINGS)
 REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1986:185881 CAPLUS
 DOCUMENT NUMBER: 104:185881
 ORIGINAL REFERENCE NO.: 104:29421a, 29424a
 TITLE: Complexation of arenes by macrocyclic hosts in aqueous and organic solutions
 AUTHOR(S): Diederich, Francois; Dick, Klaus; Griebel, Dieter
 CORPORATE SOURCE: Dep. Chem. Biochem., Univ. California, Los Angeles, CA, 90024, USA
 SOURCE: Journal of the American Chemical Society (1986), 108(9), 2273-86
 CODEN: JACSAT; ISSN: 0002-7863
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 104:185881
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Macrobicyclic hosts I (X = O, H₂) were prepared, and association consts. of their complexes with arenes were determined in weakly acidic aqueous solution
 The complexation was also examined in organic solvents by electronic absorption and emission and NMR spectroscopy. In organic solvents I (X = H₂) bound arenes better than I (X = O) or II. The geometry of a certain host-guest complex was similar in all solvents. Association was discussed in terms of van der Waals interactions and solvation-desolvation processes.
 IT 92787-61-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reduction of)
 RN 92787-61-6 CAPLUS
 CN Acetamide, 2,2'-[(1-acetyl-4-piperidinylidene)bis[(2,6-dimethyl-4,1-phenylene)oxy]]bis- (9CI) (CA INDEX NAME)



OS.CITING REF COUNT: 27 THERE ARE 27 CAPLUS RECORDS THAT CITE THIS RECORD (27 CITINGS)

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1984:630502 CAPLUS
 DOCUMENT NUMBER: 101:230502
 ORIGINAL REFERENCE NO.: 101:35008h,35009a
 TITLE: Spherical host molecules for complexation of aromatic hydrocarbons in aqueous solution
 AUTHOR(S): Diederich, Francois; Dick, Klaus
 CORPORATE SOURCE: Abt. Org. Chem., Max-Planck-Inst. Med. Forsch., Heidelberg, D-6900, Fed. Rep. Ger.
 SOURCE: Angewandte Chemie (1984), 96(10), 789-90
 CODEN: ANCEAD; ISSN: 0044-8249
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 OTHER SOURCE(S): CASREACT 101:230502
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The host I (X = O, R = CO₂CH₂Ph) was prepared from the diester II (R₁ = Ac, R₂ = CO₂Et) via II (R₁ = Ac, R₂ = succinimidylloxycarbonyl) and II (R₁ = Et, R₂ = CH₂NH₂) which were condensed to give the cyclic diamide. Reduction of the amide groups and reaction with II (R₁ = CO₂CH₂Ph, R₂ = COCl) gave I (X = O, R = CO₂CH₂Ph) which was deblocked, acetylated, and reduced to give I (X = O, H₂, R = Et). These compds. extracted pyrene from aqueous solution

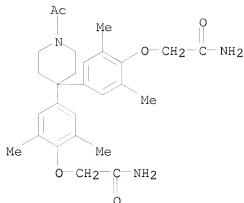
Thus treatment with 5.0 + 10⁻⁴ mol/L I (X = O, R = Et) decreased the pyrene concentration in an aqueous solution from 0.5M to 2.4 + 10⁻⁴M.

IT 92787-61-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reduction of)

RN 92787-61-6 CAPLUS

CN Acetamide, 2,2'-[(1-acetyl-4-piperidinylidene)bis[(2,6-dimethyl-4,1-phenylene)oxy]]bis- (9CI) (CA INDEX NAME)

10/551,985



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

=> d his

(FILE 'HOME' ENTERED AT 12:00:19 ON 13 OCT 2009)

FILE 'REGISTRY' ENTERED AT 12:00:34 ON 13 OCT 2009

L1 STRUCTURE UPLOADED

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L3 110 S L1 FULL

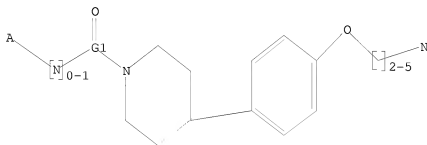
FILE 'CAPLUS' ENTERED AT 12:01:08 ON 13 OCT 2009

L4 12 S L3

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 C,S

Structure attributes must be viewed using SIN Express query preparation.

=> => d ibib abs hitstr l-11

THE ESTIMATED COST FOR THIS REQUEST IS 62.04 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L8 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2009 ACS on SIN

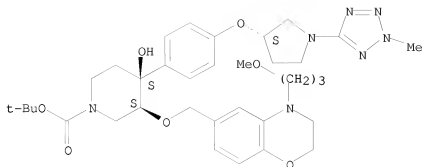
ACCESSION NUMBER: 2009:523899 CAPLUS
 DOCUMENT NUMBER: 150:494881
 TITLE: Preparation of 4,4-disubstituted piperidines as renin inhibitors
 INVENTOR(S): Herold, Peter; Mah, Robert; Tschinke, Vincenzo; Behnke, Dirk; Jelakovic, Stjepan; Jotterand, Nathalie; Stutz, Stefan; Lyothier, Isabelle
 PATENT ASSIGNEE(S): Speedel Experimenta AG, Switz.
 SOURCE: PCT Int. Appl., 49pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2009053452	A1	20090430	WO 2008-EP64417	20081024
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
PRIORITY APPLN. INFO.:			EP 2007-119265	A 20071025
OTHER SOURCE(S):	MARPAT 150:494881			
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [R2 = substituted phenyl], and their pharmaceutically acceptable salts, are prepared as medicines, especially as renin inhibitors. Thus, e.g., II was prepared in 10 steps starting from 2-(2-bromo-5-chlorophenyl)ethanol. As renin inhibitor, II exhibited IC50 value of 9.6 nM. The invention compds. useful for treating high blood pressure, heart failure, glaucoma, myocardial infarction, renal failure, restenosis or stroke are also disclosed.
 IT 1147886-71-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of 4,4-disubstituted piperidines as renin inhibitors)
 RN 1147886-71-2 CAPLUS
 CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl)methoxy]-4-hydroxy-4-[[[(3S)-1-(2-methyl-2H-tetrazol-5-yl)-3-pyrrolidinyl]oxy]phenyl]-, 1,1-dimethylethyl ester, (3S,4S)- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2009 ACS ON STN

ACCESSION NUMBER: 2009:363181 CAPLUS

DOCUMENT NUMBER: 150:352196

TITLE: Preparation of pyrazinylpiperazinyl sulfones as modulators of GPR119 activity

INVENTOR(S): Alper, Phillip; Azimioara, Mihai; Cow, Christopher; Epple, Robert; Jiang, Songchun; Lelais, Gerald; Michellys, Pierre-Yves; Mutnick, Daniel; Nikulin, Victor; Westcott-Baker, Lucas

PATENT ASSIGNEE(S): IRM LLC, Bermuda

SOURCE: PCT Int. Appl., 234pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

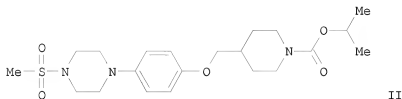
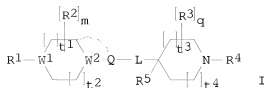
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2009038974	A1	20090326	WO 2008-US75145	20080903
<p>W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW</p> <p>RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM</p>				
PRIORITY APPLN. INFO.:			US 2007-974064P	P 20070920
			US 2008-45263P	P 20080415

OTHER SOURCE(S): MARPAT 150:352196

GI



AB The title compds. I [Q = a divalent or trivalent radical selected from (un)substituted (hetero)aryl and (hetero)cycloalkyl; W1, W2 = CR21, N (wherein R21 = H, CN, alkyl, etc.); L = alkylene, alkenylene, (CH2)nO, etc.; n = 0-5; m = 0-4; q = 0-4; t1-t4 = 0-2; R1 = substituted sulfonyl; R2, R3 = H, halo, OH, etc.; R4 = R8, CO2R8 (R8 = alkyl, aryl, heteroaryl, etc.); R5 = H, alkyl, haloalkyl, etc.], useful for treating or preventing diseases or disorders associated with the activity of GPR119, were prepared E.g., a multi-step synthesis of II, starting from 4-(hydroxymethyl)piperidine and iso-Pr chloroformate, was given. Compds. I produced a concentration-dependent increase in an intracellular cAMP level.

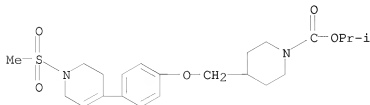
I show an EC50 of between $1 + 10^{-5}$ and $1 + 10^{-10}$ M (more specific data were given for representative I). Pharmaceutical compds. comprising compds. I and methods of using such compds. to treat or prevent diseases or disorders associated with the activity of GPR119, were disclosed.

IT 1134105-21-7P 1134105-23-9P 1134105-25-1P
1134105-31-9P 1134105-33-1P 1134109-19-5P
1134109-58-2P 1134110-04-5P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of pyrazinylpiperazinyl sulfones as GPR119 modulators useful in treatment and prevention of GPR119 mediated diseases)

RN 1134105-21-7 CAPLUS

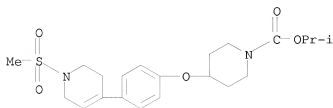
CN 1-Piperidinecarboxylic acid, 4-[[4-[1,2,3,6-tetrahydro-1-(methylsulfonyl)-4-pyridinyl]phenoxy]methyl]-, 1-methylethyl ester (CA INDEX NAME)



RN 1134105-23-9 CAPLUS

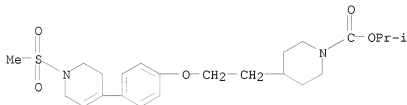
CN 1-Piperidinecarboxylic acid, 4-[[4-[1,2,3,6-tetrahydro-1-(methylsulfonyl)-4-

pyridinyl]phenoxy]-, 1-methylethyl ester (CA INDEX NAME)



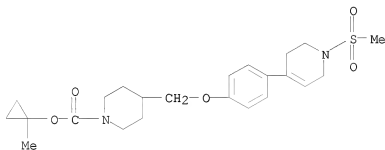
RN 1134105-25-1 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[2-[4-[1,2,3,6-tetrahydro-1-(methylsulfonyl)-4-pyridinyl]phenoxy]ethyl]-, 1-methylethyl ester (CA INDEX NAME)



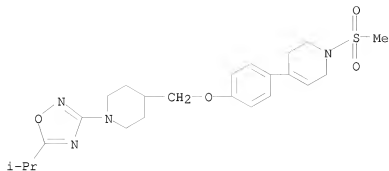
RN 1134105-31-9 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[4-[1,2,3,6-tetrahydro-1-(methylsulfonyl)-4-pyridinyl]phenoxy]methyl]-, 1-methylcyclopropyl ester (CA INDEX NAME)



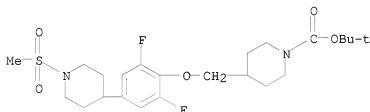
RN 1134105-33-1 CAPLUS

CN Pyridine, 1,2,3,6-tetrahydro-4-[4-[[1-[5-(1-methylethyl)-1,2,4-oxadiazol-3-yl]-4-piperidinyl]methoxy]phenyl]-1-(methylsulfonyl)- (CA INDEX NAME)



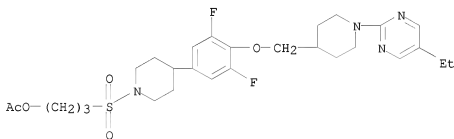
RN 1134109-19-5 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[[2,6-difluoro-4-[1-(methylsulfonyl)-4-piperidinyl]phenoxy]methyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



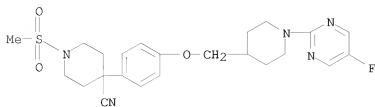
RN 1134109-58-2 CAPLUS

CN 1-Propanol, 3-[[[4-[1-(5-ethyl-2-pyrimidinyl)-4-piperidinyl]methoxy]-3,5-difluorophenyl]-1-piperidinyl]sulfonyl]-, 1-acetate (CA INDEX NAME)



RN 1134110-04-5 CAPLUS

CN 4-Piperidinecarbonitrile, 4-[4-[1-(5-fluoro-2-pyrimidinyl)-4-piperidinyl]methoxy]phenyl]-1-(methylsulfonyl)- (CA INDEX NAME)



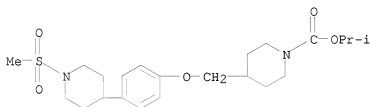
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	1134105-60-4P	1134105-62-6P	1134105-64-8P
	1134105-66-0P	1134105-68-2P	1134105-69-3P
	1134105-71-7P	1134105-73-9P	1134105-75-1P
	1134105-77-3P	1134109-22-0P	1134109-25-3P
	1134109-28-6P	1134109-31-1P	1134109-34-4P
	1134109-37-7P	1134109-40-2P	1134109-43-5P
	1134109-46-8P	1134109-49-1P	1134109-52-6P
	1134109-55-9P	1134109-60-6P	1134109-62-8P
	1134109-65-1P	1134110-07-8P	

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pyrazinylpiperazinyl sulfones as GPR119 modulators useful in treatment and prevention of GPR119 mediated diseases)

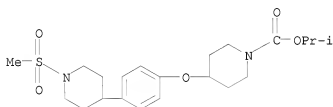
RN 1134105-38-6 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[4-[1-(methylsulfonyl)-4-piperidinyl]phenoxy]methyl]-, 1-methylethyl ester (CA INDEX NAME)



RN 1134105-40-0 CAPLUS

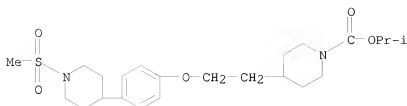
CN 1-Piperidinecarboxylic acid, 4-[4-[1-(methylsulfonyl)-4-piperidinyl]phenoxy]-, 1-methylethyl ester (CA INDEX NAME)



RN 1134105-42-2 CAPLUS

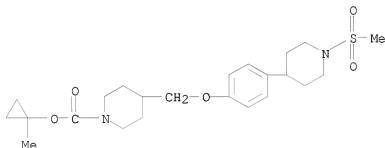
CN 1-Piperidinecarboxylic acid, 4-[2-[4-[1-(methylsulfonyl)-4-piperidinyl]phenoxy]ethyl]-, 1-methylethyl ester (CA INDEX NAME)

10/551,985



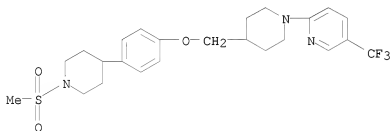
RN 1134105-48-8 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[4-[1-(methylsulfonyl)-4-piperidinyl]phenoxy]methyl]-, 1-methylcyclopropyl ester (CA INDEX NAME)



RN 1134105-56-8 CAPLUS

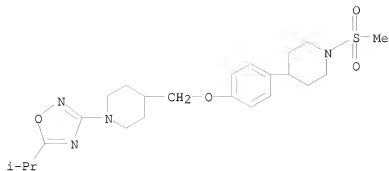
CN Pyridine, 2-[4-[[4-[1-(methylsulfonyl)-4-piperidinyl]phenoxy]methyl]-1-piperidinyl]-5-(trifluoromethyl)- (CA INDEX NAME)



RN 1134105-58-0 CAPLUS

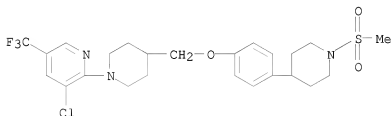
CN Piperidine, 1-[5-(1-methylethyl)-1,2,4-oxadiazol-3-yl]-4-[[4-[1-(methylsulfonyl)-4-piperidinyl]phenoxy]methyl]- (CA INDEX NAME)

10/551,985



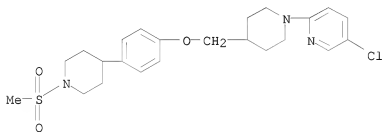
RN 1134105-60-4 CAPLUS

CN Pyridine, 3-chloro-2-[[4-[[1-(methylsulfonyl)-4-piperidinyl]phenoxy]methyl]-1-piperidinyl]-5-(trifluoromethyl)- (CA INDEX NAME)



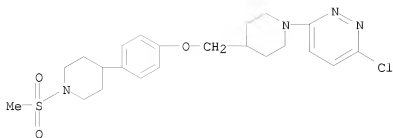
RN 1134105-62-6 CAPLUS

CN Pyridine, 5-chloro-2-[[4-[[1-(methylsulfonyl)-4-piperidinyl]phenoxy]methyl]-1-piperidinyl]-3-(trifluoromethyl)- (CA INDEX NAME)



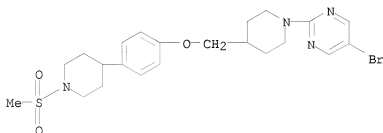
RN 1134105-64-8 CAPLUS

CN Pyridazine, 3-chloro-6-[[4-[[1-(methylsulfonyl)-4-piperidinyl]phenoxy]methyl]-1-piperidinyl]- (CA INDEX NAME)



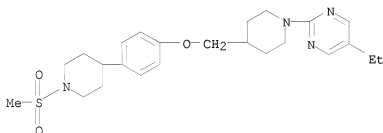
RN 1134105-66-0 CAPLUS

CN Pyrimidine, 5-bromo-2-[4-[[4-[1-(methylsulfonyl)-4-piperidinyl]phenoxy]methyl]-1-piperidinyl]- (CA INDEX NAME)



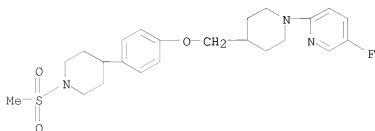
RN 1134105-68-2 CAPLUS

CN Pyrimidine, 5-ethyl-2-[4-[[4-[1-(methylsulfonyl)-4-piperidinyl]phenoxy]methyl]-1-piperidinyl]- (CA INDEX NAME)



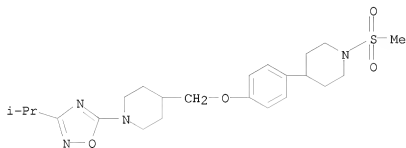
RN 1134105-69-3 CAPLUS

CN Pyridine, 5-fluoro-2-[4-[[4-[1-(methylsulfonyl)-4-piperidinyl]phenoxy]methyl]-1-piperidinyl]- (CA INDEX NAME)



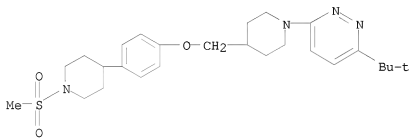
RN 1134105-71-7 CAPLUS

CN Piperidine, 1-[3-(1-methylethyl)-1,2,4-oxadiazol-5-yl]-4-[[4-[1-(methylsulfonyl)-4-piperidinyl]phenoxy]methyl]- (CA INDEX NAME)



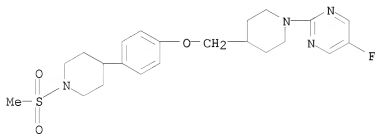
RN 1134105-73-9 CAPLUS

CN Pyridazine, 3-(1,1-dimethylethyl)-6-[4-[[4-[1-(methylsulfonyl)-4-piperidinyl]phenoxy]methyl]-1-piperidinyl]- (CA INDEX NAME)



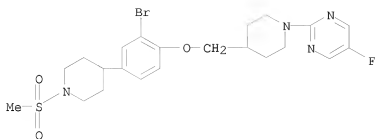
RN 1134105-75-1 CAPLUS

CN Pyrimidine, 5-fluoro-2-[4-[[4-[1-(methylsulfonyl)-4-piperidinyl]phenoxy]methyl]-1-piperidinyl]- (CA INDEX NAME)



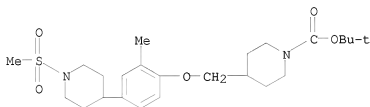
RN 1134105-77-3 CAPLUS

CN Pyrimidine, 2-[4-[[2-bromo-4-[1-(methylsulfonyl)-4-piperidinyl]phenoxy]methyl]-1-piperidinyl]-5-fluoro- (CA INDEX NAME)



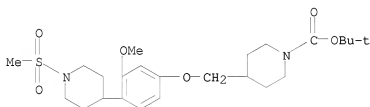
RN 1134109-22-0 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[2-methyl-4-[1-(methanesulfonyl)-4-piperidinyl]phenoxy]methyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



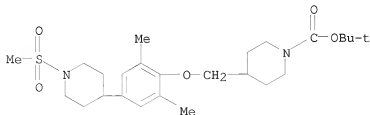
RN 1134109-25-3 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[3-methoxy-4-[1-(methanesulfonyl)-4-piperidinyl]phenoxy]methyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



RN 1134109-28-6 CAPLUS

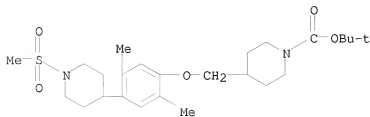
CN 1-Piperidinecarboxylic acid, 4-[[2,6-dimethyl-4-[1-(methanesulfonyl)-4-piperidinyl]phenoxy]methyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



RN 1134109-31-1 CAPLUS

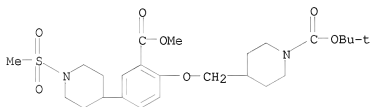
CN 1-Piperidinecarboxylic acid, 4-[[2,5-dimethyl-4-[1-(methanesulfonyl)-4-

piperidinyl]phenoxy)methyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



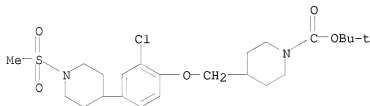
RN 1134109-34-4 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[2-(methoxycarbonyl)-4-[1-(methylsulfonyl)-4-piperidinyl]phenoxy)methyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



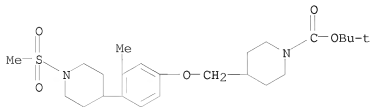
RN 1134109-37-7 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[2-chloro-4-[1-(methylsulfonyl)-4-piperidinyl]phenoxy)methyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



RN 1134109-40-2 CAPLUS

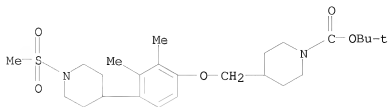
CN 1-Piperidinecarboxylic acid, 4-[[3-methyl-4-[1-(methylsulfonyl)-4-piperidinyl]phenoxy)methyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



RN 1134109-43-5 CAPLUS

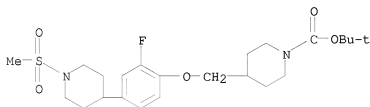
CN 1-Piperidinecarboxylic acid, 4-[[2,3-dimethyl-4-[1-(methylsulfonyl)-4-

piperidinyl]phenoxy)methyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



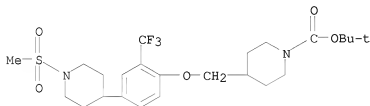
RN 1134109-46-8 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[2-fluoro-4-[1-(methylsulfonyl)-4-piperidinyl]phenoxy)methyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



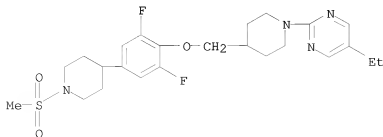
RN 1134109-49-1 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[4-[1-(methylsulfonyl)-4-piperidinyl]-2-(trifluoromethyl)phenoxy)methyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



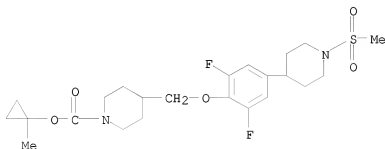
RN 1134109-52-6 CAPLUS

CN Pyrimidine, 2-[4-[[2,6-difluoro-4-[1-(methylsulfonyl)-4-piperidinyl]phenoxy)methyl]-1-piperidinyl]-5-ethyl- (CA INDEX NAME)



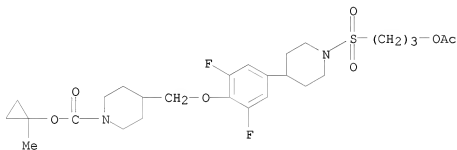
RN 1134109-55-9 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[2,6-difluoro-4-[1-(methylsulfonyl)-4-piperidinyl]phenoxy]methyl]-, 1-methylcyclopropyl ester (CA INDEX NAME)



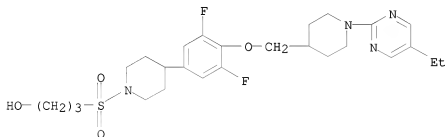
RN 1134109-60-6 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[4-[1-[[3-(acetyloxy)propyl]sulfonyl]-4-piperidinyl]-2,6-difluorophenoxy]methyl]-, 1-methylcyclopropyl ester (CA INDEX NAME)



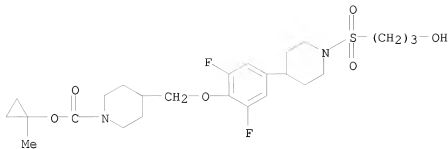
RN 1134109-62-8 CAPLUS

CN 1-Propanol, 3-[[4-[4-[[1-(5-ethyl-2-pyrimidinyl)-4-piperidinyl]methoxy]-3,5-difluorophenyl]-1-piperidinyl]sulfonyl]- (CA INDEX NAME)



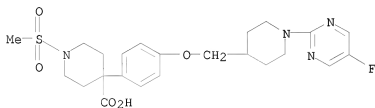
RN 1134109-65-1 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[2,6-difluoro-4-[1-[(3-hydroxypropyl)sulfonyl]-4-piperidinyl]phenoxy]methyl]-, 1-methylcyclopropyl ester (CA INDEX NAME)



RN 1134110-07-8 CAPLUS

CN 4-Piperidinecarboxylic acid, 4-[[4-[[1-(5-fluoro-2-pyrimidinyl)-4-piperidinyl]methoxy]phenyl]-1-(methylsulfonyl)- (CA INDEX NAME)



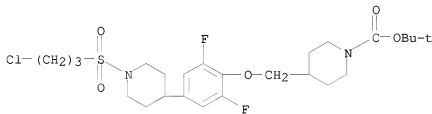
IT 1134112-60-9P 1134112-62-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of pyrazinylpiperazinyl sulfones as GPR119 modulators useful in treatment and prevention of GPR119 mediated diseases)

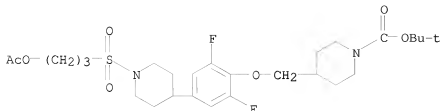
RN 1134112-60-9 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[4-[1-[(3-chloropropyl)sulfonyl]-4-piperidinyl]-2,6-difluorophenoxy]methyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



RN 1134112-62-1 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[4-[1-[(3-(acetyloxy)propyl)sulfonyl]-4-piperidinyl]-2,6-difluorophenoxy]methyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:773795 CAPLUS

DOCUMENT NUMBER: 149:104606

TITLE: Piperidine-nitro derivatives as nonpeptidic renin inhibitors, their pharmaceutical compositions and use in the treatment of diseases

INVENTOR(S): Almirante, Nicoletta; Biondi, Stefano; Ongini, Ennio

PATENT ASSIGNEE(S): Nicox S.A., Fr.

SOURCE: PCT Int. Appl., 218pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

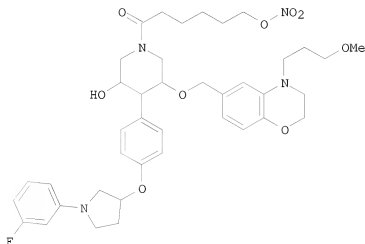
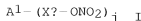
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008074450	A2	20080626	WO 2007-EP11078	20071213
WO 2008074450	A3	20090108		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA			

PRIORITY APPLN. INFO.: US 2006-875816P P 20061220

OTHER SOURCE(S): MARPAT 149:104606

GI



II

AB Nonpeptidic renin inhibitors nitro derivs. of general formula I: having wider pharmacol. activity and enhanced tolerability. They can be employed for treating or preventing cardiovascular, renal and chronic liver diseases, inflammatory processes and metabolic syndrome. Comps. of formula I wherein Al is substituted (mono/bi)azacycle; j is 1, 2, and 3; Xa is (un)branched CO-C1-20 alkylene, (un)branched CO2-C1-20 alkylene, CO-(CH2)0-20-aryl-(CH2)1-20, CO2-(CH2)0-20-aryl-(CH2)1-20, etc.; and their pharmaceutically acceptable salts, and stereoisomers thereof, are claimed. Compound II may be prepared by a general procedure. The comps. of the invention may be used as nonpeptidic renin inhibitors.

IT	1034701-37-5P	1034701-40-0P	1034701-41-1P
	1034701-43-3P	1034701-44-4P	1034701-45-5P
	1034701-46-6P	1034701-48-8P	1034701-49-9P
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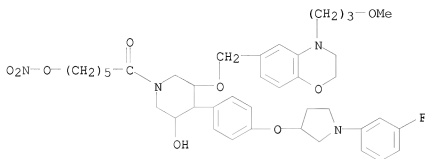
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of piperidine-nitro derivs. of nonpeptidic renin inhibitors and their use in treating cardiovascular, renal, and liver diseases, inflammation, and metabolic syndrome)

RN 1034701-37-5 CAPLUS

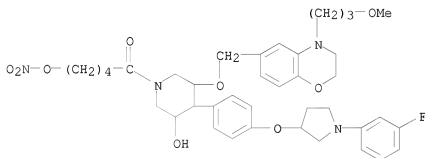
CN 1-Hexanone, 1-[3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-hydroxy-

1-piperidiny]-6-(nitrooxy)- (CA INDEX NAME)



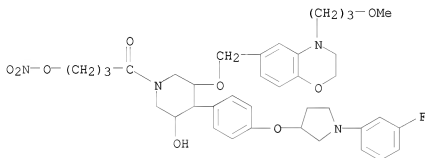
RN 1034701-40-0 CAPLUS

CN 1-Pentanone, 1-[3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-hydroxy-1-piperidiny]-5-(nitrooxy)- (CA INDEX NAME)



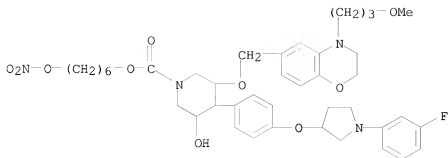
RN 1034701-41-1 CAPLUS

CN 1-Butanone, 1-[3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-hydroxy-1-piperidiny]-4-(nitrooxy)- (CA INDEX NAME)



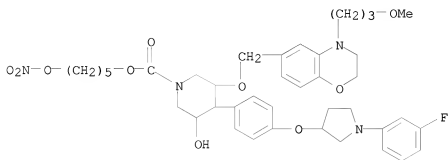
RN 1034701-43-3 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-hydroxy-, 6-(nitrooxy)hexyl ester (CA INDEX NAME)



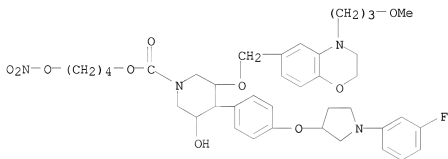
RN 1034701-44-4 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-hydroxy-, 5-(nitrooxy)pentyl ester (CA INDEX NAME)



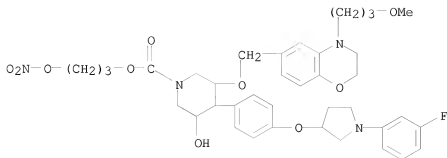
RN 1034701-45-5 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-hydroxy-, 4-(nitrooxy)butyl ester (CA INDEX NAME)



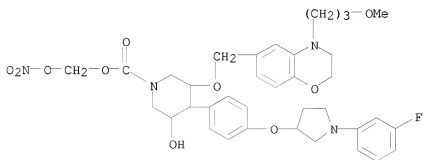
RN 1034701-46-6 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-hydroxy-, 3-(nitrooxy)propyl ester (CA INDEX NAME)



RN 1034701-48-8 CAPLUS

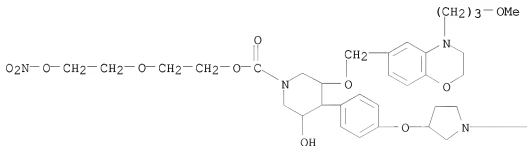
CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-hydroxy-, (nitrooxy)methyl ester (CA INDEX NAME)



RN 1034701-49-9 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-hydroxy-, 2-[2-(nitrooxy)ethoxy]ethyl ester (CA INDEX NAME)

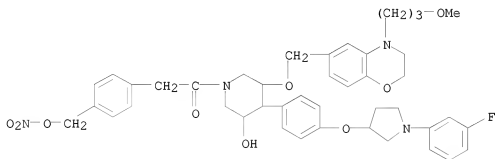
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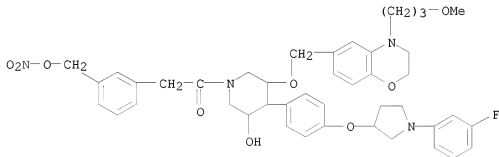
RN 1034701-52-4 CAPLUS

CN Ethanone, 1-[3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-hydroxy-1-piperidinyl]-2-[4-[(nitrooxy)methyl]phenyl]- (CA INDEX NAME)



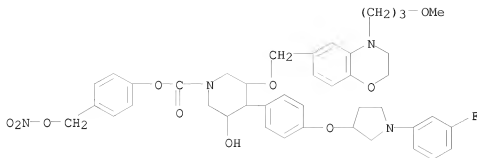
RN 1034701-53-5 CAPLUS

CN Ethanone, 1-[3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-hydroxy-1-piperidinyl]-2-[3-[(nitrooxy)methyl]phenyl]- (CA INDEX NAME)



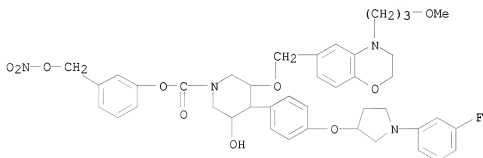
RN 1034701-55-7 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-hydroxy-, 4-[(nitrooxy)methyl]phenyl ester (CA INDEX NAME)



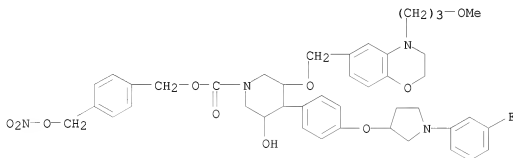
RN 1034701-57-9 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-hydroxy-, 3-[(nitrooxy)methyl]phenyl ester (CA INDEX NAME)



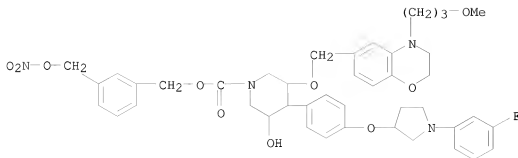
RN 1034701-58-0 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-hydroxy-, [4-[(nitrooxy)methyl]phenyl]methyl ester (CA INDEX NAME)



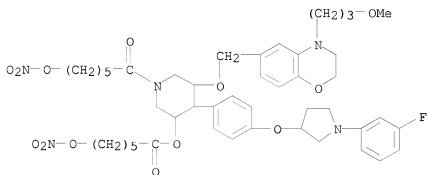
RN 1034701-59-1 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-hydroxy-, [3-[(nitrooxy)methyl]phenyl]methyl ester (CA INDEX NAME)



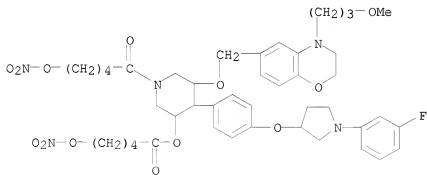
RN 1034701-61-5 CAPLUS

CN Hexanoic acid, 6-(nitrooxy)-, 5-[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-1-[6-(nitrooxy)-1-oxohexyl]-3-piperidinyl ester (CA INDEX NAME)



RN 1034701-63-7 CAPLUS

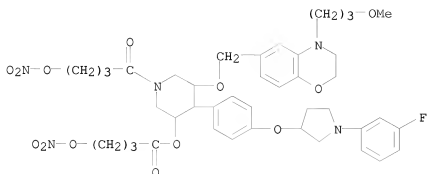
CN Pentanoic acid, 5-(nitrooxy)-, 5-[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-1-[5-(nitrooxy)-1-oxopentyl]-3-piperidinyl ester (CA INDEX NAME)



RN 1034701-64-8 CAPLUS

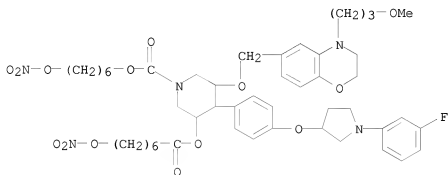
CN Butanoic acid, 4-(nitrooxy)-, 5-[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-1-[4-(nitrooxy)-1-oxobutyl]-3-piperidinyl ester (CA INDEX NAME)

(CA INDEX NAME)



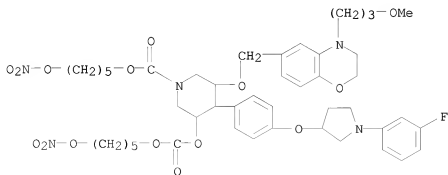
RN 1034701-65-9 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[[7-(nitrooxy)-1-oxoheptyl]oxy]-, 6-(nitrooxy)hexyl ester (CA INDEX NAME)



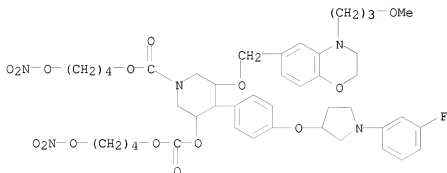
RN 1034701-66-0 CAPLUS

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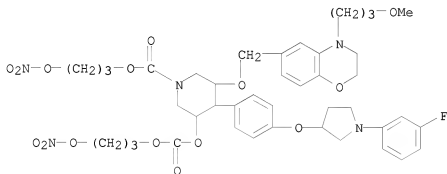
RN 1034701-67-1 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[[4-(nitrooxy)butoxy]carbonyl]oxy]-, 4-(nitrooxy)butyl ester (CA INDEX NAME)



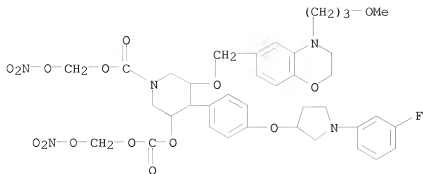
RN 1034701-68-2 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[[3-(nitrooxy)propoxy]carbonyl]oxy]-, 3-(nitrooxy)propyl ester (CA INDEX NAME)



RN 1034701-69-3 CAPLUS

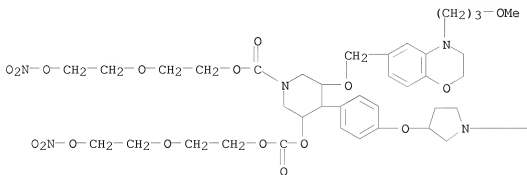
CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[[[(nitrooxy)methoxy]carbonyl]oxy]-, (nitrooxy)methyl ester (CA INDEX NAME)



RN 1034701-70-6 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[[[2-[2-(nitrooxy)ethoxy]ethoxy]carbonyl]oxy]-, 2-[2-(nitrooxy)ethoxy]ethyl ester (CA INDEX NAME)

PAGE 1-A



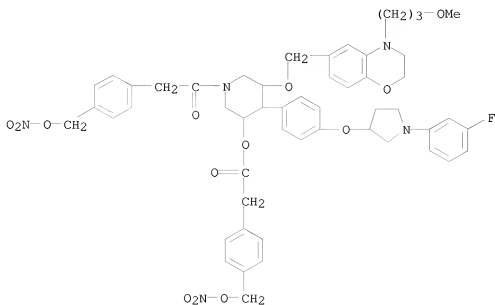
PAGE 1-B



RN 1034701-73-9 CAPLUS

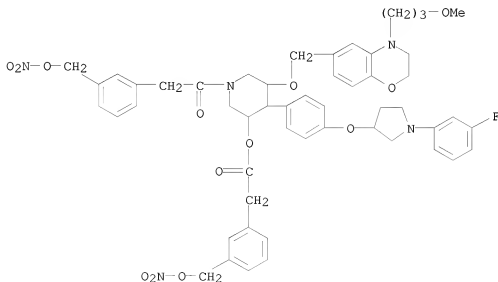
CN Benzeneacetic acid, 4-[(nitrooxy)methyl]-, 5-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-1-[2-[4-

[(nitrooxy)methyl]phenyl]acetyl]-3-piperidinyl ester (CA INDEX NAME)



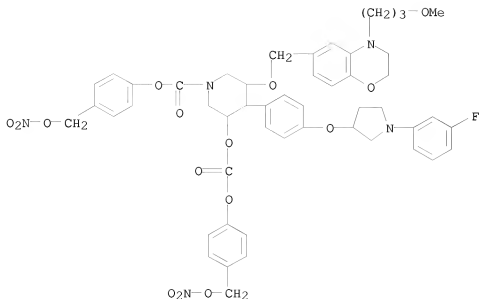
RN 1034701-74-0 CAPLUS

CN Benzeneacetic acid, 3-[(nitrooxy)methyl]-, 5-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[[1-[(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-1-[2-[3-[(nitrooxy)methyl]phenyl]acetyl]-3-piperidinyl] ester (CA INDEX NAME)



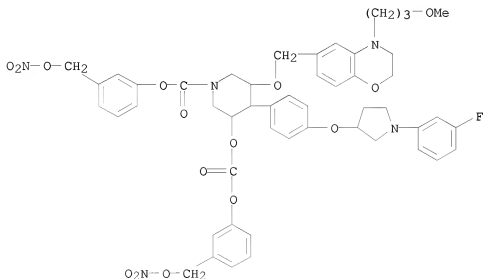
RN 1034701-75-1 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[[1-[(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[[[4-[(nitrooxy)methyl]phenoxy]carbonyl]oxy]-, 4-[(nitrooxy)methyl]phenyl ester (CA INDEX NAME)



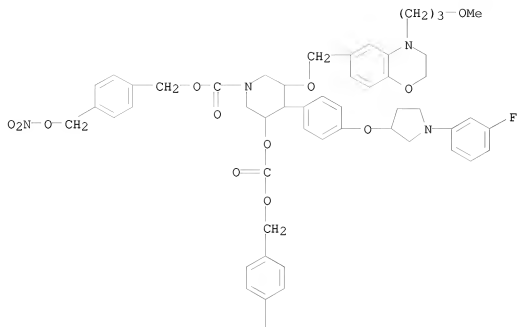
RN 1034701-76-2 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[[[3-[(nitrooxy)methyl]phenoxy]carbonyl]oxy]-, 3-[(nitrooxy)methyl]phenyl ester (CA INDEX NAME)



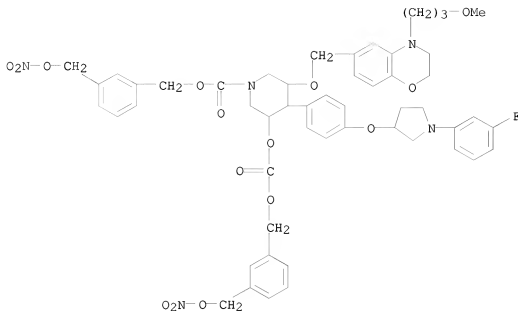
RN 1034701-77-3 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[[[4-[(nitrooxy)methyl]phenyl]methoxy]carbonyl]oxy]-, 4-[(nitrooxy)methyl]phenyl methyl ester (CA INDEX NAME)



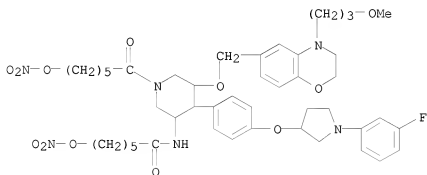
RN 1034701-78-4 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[[[3-(nitrooxymethyl)phenyl]methoxy]carbonyl]oxy]-, [3-[(nitrooxymethyl)phenyl]methyl ester (CA INDEX NAME)



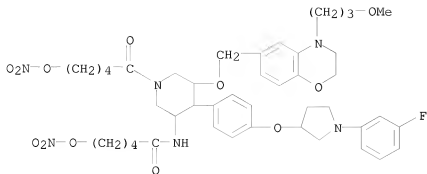
RN 1034701-96-6 CAPLUS

CN Hexanamide, N-[5-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-1-[6-(nitrooxy)-1-oxohexyl]-3-piperidinyl]-6-(nitrooxy)- (CA INDEX NAME)



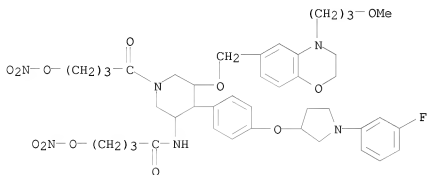
RN 1034701-97-7 CAPLUS

CN Pentanamide, N-[5-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-1-[5-(nitrooxy)-1-oxopentyl]-3-piperidinyl]-5-(nitrooxy)- (CA INDEX NAME)



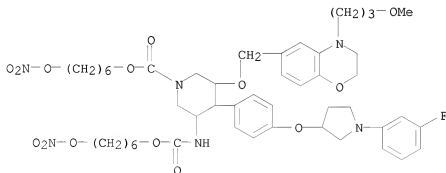
RN 1034701-98-8 CAPLUS

CN Butanamide, N-[5-[4-[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-1-[4-(nitrooxy)-1-oxobutyl]-3-piperidinyl]-4-(nitrooxy)- (CA INDEX NAME)



RN 1034701-99-9 CAPLUS

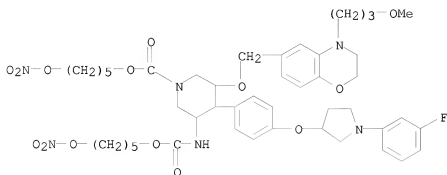
CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[[[6-(nitrooxy)hexyl]oxy]carbonyl]amino]-, 6-(nitrooxy)hexyl ester (CA INDEX NAME)



RN 1034702-00-5 CAPLUS

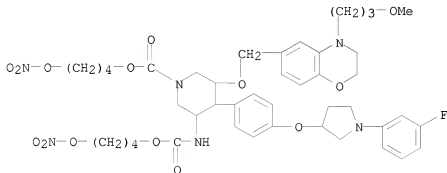
CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[[[5-(nitrooxy)pentyl]oxy]carbonyl]amino]-,

5-(nitrooxy)pentyl ester (CA INDEX NAME)



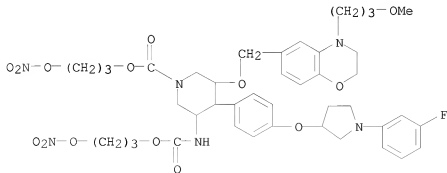
RN 1034702-01-6 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[[[4-(nitrooxy)butoxy]carbonyl]amino]-, 4-(nitrooxy)butyl ester (CA INDEX NAME)



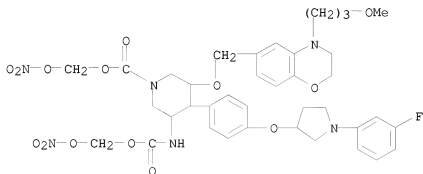
RN 1034702-02-7 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[[[3-(nitrooxy)propoxy]carbonyl]amino]-, 3-(nitrooxy)propyl ester (CA INDEX NAME)



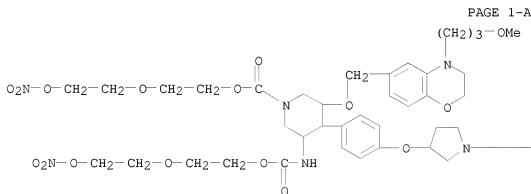
RN 1034702-03-8 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[[[(nitrooxy)methoxy]carbonyl]amino]-, (nitrooxy)methyl ester (CA INDEX NAME)



RN 1034702-04-9 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[[[2-(2-(nitrooxy)ethoxy)ethoxy]carbonyl]amino]-, 2-[2-(nitrooxy)ethoxy]ethyl ester (CA INDEX NAME)

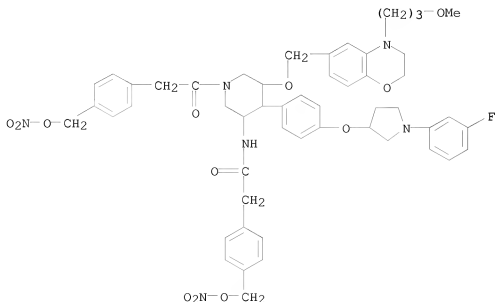


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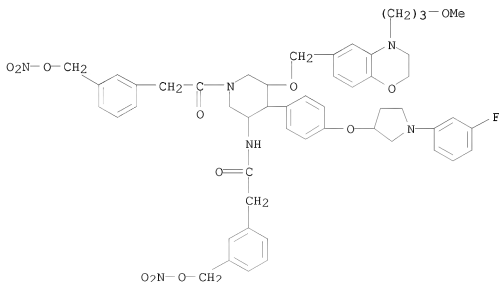
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CN Benzeneacetamide, N-[5-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-1-[2-[4-[(nitrooxy)methyl]phenyl]acetyl]-3-piperidinyl]-4-[(nitrooxy)methyl]- (CA INDEX NAME)



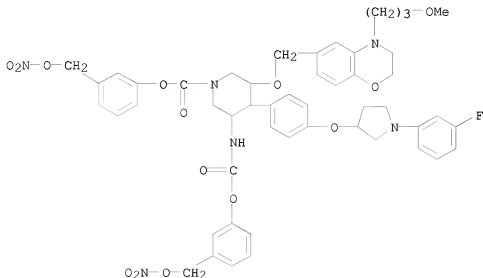
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CN Benzeneacetamide, N-[5-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-1-[2-[3-[(nitrooxy)methyl]phenyl]acetyl]-3-piperidinyl]-3-[(nitrooxy)methyl]- (CA INDEX NAME)



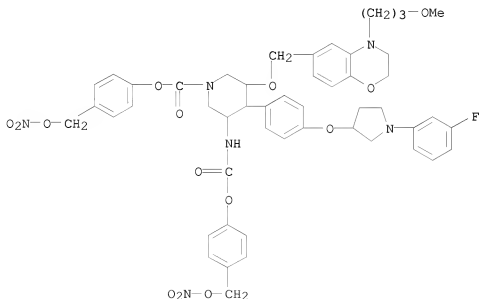
RN 1034702-09-4 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[[[3-[(nitrooxy)methyl]phenoxy]carbonyl]amino]-, 3-[(nitrooxy)methyl]phenyl ester (CA INDEX NAME)



RN 1034702-10-7 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[[[4-[(nitrooxy)methyl]phenoxy]carbonyl]amino]-, 4-[(nitrooxy)methyl]phenyl ester (CA INDEX NAME)

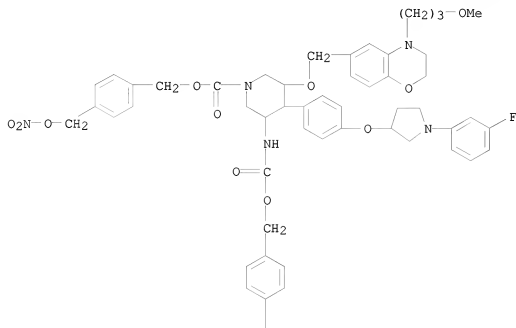


RN 1034702-11-8 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-

benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[[[4-(nitrooxy)methyl]phenyl]methoxy]carbonyl]amino]-, [4-[(nitrooxy)methyl]phenyl]methyl ester (CA INDEX NAME)

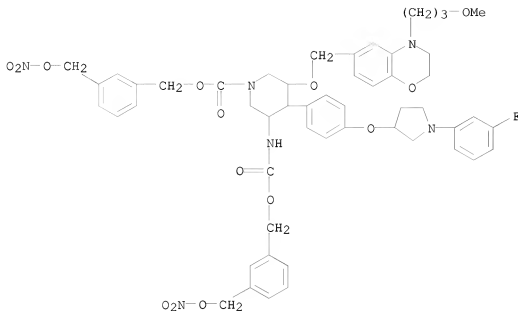
PAGE 1-A



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RN 1034702-12-9 CAPLUS
 CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[[[3-(nitrooxy)methyl]phenyl]methoxy]carbonyl]amino]-, [3-[(nitrooxy)methyl]phenyl]methyl ester (CA INDEX NAME)



L8 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:436471 CAPLUS

DOCUMENT NUMBER: 148:449461

TITLE: Arylpiperidine derivatives as renin inhibitors

PATENT ASSIGNEE(S): Speedel Experimenta AG, Switz.

SOURCE: Eur. Pat. Appl., 72pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

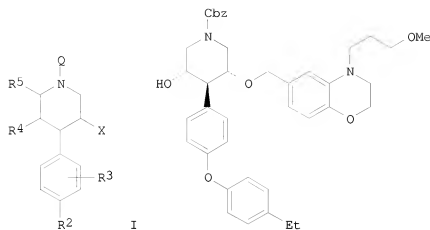
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1908761	A1	20080409	EP 2006-121769	20061004
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
EP 1908762	A2	20080409	EP 2007-117831	20071003
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				

PRIORITY APPLN. INFO.: EP 2006-121769 A 20061004

OTHER SOURCE(S): MARPAT 148:449461

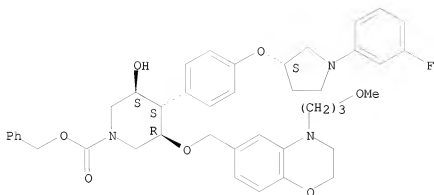
GI



AB Title compds. I [R2 = alkenyloxy, alkoxy, alkoxyalkoxy, etc.; R3 = H or halo (one or two halo substituents possible); R4 = H or when R5 = H, R4 = (un)substituted alkoxy, alkoxyalkoxy, cyanoalkoxy, etc.; R5 = H or when R4 = H, R5 = alkenyl, alkyl, alkylsulfonylalkyl, etc.; X = R1O-alkyl, R1-alkylthio, R1-alkyl, etc.; R1 = aryl or heterocyclyl; Q = H or CO2CHR7OC(O)R8; R7 = (un)substituted alkyl or arylalkyl; R8 = alkyl], and their pharmaceutically acceptable salts, are prepared and disclosed as renin inhibitors. Intermediate II was prepared by coupling of (3R,4R,5S)-4-(4-hydroxyphenyl)-3-[[4-(3-methoxypropyl)-3,4-dihydro-2H-benzo[1,4]oxazin-6-ylmethoxy]5-triisopropylsilanyloxypiperidine-1-carboxylic acid benzyl ester (preparation given) with 4-ethylphenylboronic acid followed by desilylation. Methods for converting intermediate II to a compound of formula I are described which involve esterification and deprotection. Assays for inhibiting PEPT1 transporter indicate I have inhibitory effects in the in vitro system at minimal concns. of about 10-2 to about 10-5 mol/L. Pharmacokinetic properties are also analyzed with compds. of the invention effectively increasing concentration of parent compound in plasma in the in vivo test described at doses of about 0.3 to about 30 mg/kg p.o. Moreover, the enzymic substrate portion of the compound is simultaneously a substrate for a membrane transporter.

IT 873945-20-1
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (Starting material; preparation of arylpiperidine derivs. as renin inhibitors)
 RN 873945-20-1 CAPLUS
 CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-hydroxy-, phenylmethyl ester, (3R,4S,5S)- (CA INDEX NAME)

Absolute stereochemistry.



IT 1019261-38-1P 1019261-40-5P 1019261-42-7P
 1019261-44-9P 1019261-46-1P 1019261-48-3P
 1019261-50-7P

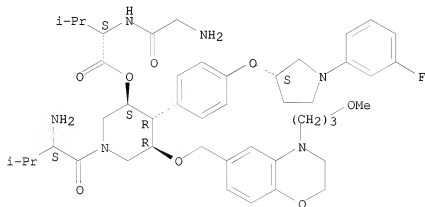
RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of arylpiperidine derivs. as renin inhibitors)

RN 1019261-38-1 CAPLUS

CN L-Valine, glycyl-, (3S,4R,5R)-1-[(2S)-2-amino-3-methyl-1-oxobutyl]-5-[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-3-piperidinyl ester (CA INDEX NAME)

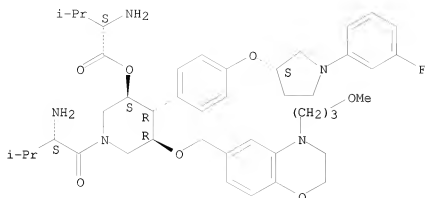
Absolute stereochemistry.



RN 1019261-40-5 CAPLUS

CN L-Valine, (3S,4R,5R)-1-[(2S)-2-amino-3-methyl-1-oxobutyl]-5-[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-3-piperidinyl ester (CA INDEX NAME)

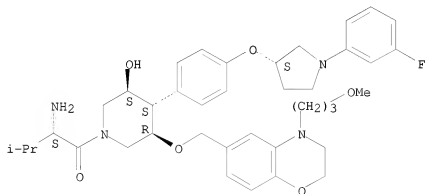
Absolute stereochemistry.



RN 1019261-42-7 CAPLUS

CN 1-Butanone, 2-amino-1-[(3R,4S,5S)-3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-hydroxy-1-piperidinyl]-3-methyl-, (2S)- (CA INDEX NAME)]

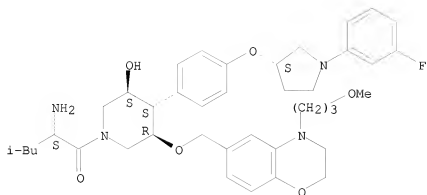
Absolute stereochemistry.



RN 1019261-44-9 CAPLUS

CN 1-Pentanone, 2-amino-1-[(3R,4S,5S)-3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-hydroxy-1-piperidinyl]-4-methyl-, (2S)- (CA INDEX NAME)]

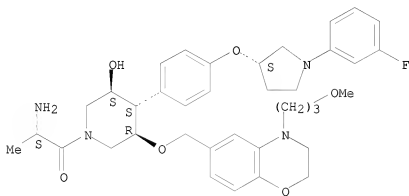
Absolute stereochemistry.



RN 1019261-46-1 CAPLUS

CN 1-Propanone, 2-amino-1-[(3R,4S,5S)-3-[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[[4-[[[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-hydroxy-1-piperidinyl]-, (2S)- (CA INDEX NAME)

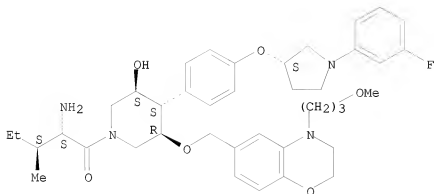
Absolute stereochemistry.



RN 1019261-48-3 CAPLUS

CN 1-Pentanone, 2-amino-1-[(3R,4S,5S)-3-[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[[4-[[[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-hydroxy-1-piperidinyl]-3-methyl-, (2S,3S)- (CA INDEX NAME)

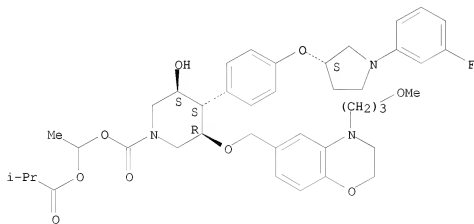
Absolute stereochemistry.



RN 1019261-50-7 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-hydroxy-, 1-(2-methyl-1-oxopropoxy)ethyl ester, (3R,4S,5S)- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:191818 CAPLUS

DOCUMENT NUMBER: 148:262597

TITLE: Nitrate esters of piperidines and their preparation, pharmaceutical compositions and use in the treatment of cardiovascular diseases

INVENTOR(S): Herold, Peter; Mah, Robert; Stutz, Stefan; Tschinke, Vincenzo; Lyothier, Isabelle; Schumacher, Christoph; Marti, Christiane; Jotterand, Nathalie

PATENT ASSIGNEE(S): Speedel Experimenta AG, Switz.

SOURCE: PCT Int. Appl., 113 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008017685	A1	20080214	WO 2007-EP58207	20070807
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AU 2007283631	A1	20080214	AU 2007-283631	20070807
CA 2660538	A1	20080214	CA 2007-2660538	20070807
EP 2049514	A1	20090422	EP 2007-788301	20070807
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
MX 2009001404	A	20090513	MX 2009-1404	20090206
CN 101501020	A	20090805	CN 2007-80029206	20090206
KR 2009061000	A	20090615	KR 2009-704738	20090306
IN 2009CN01299	A	20090710	IN 2009-CN1299	20090306
PRIORITY APPLN. INFO.:			CH 2006-1279	A 20060808
			WO 2007-EP58207	W 20070807

OTHER SOURCE(S): MARPAT 148:262597

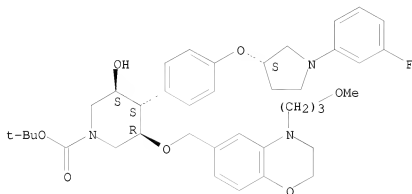
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

- AB The application relates to novel nitrate ester derivs. of substituted piperidines of the general formula I, a process for their preparation and the use of these compds. as a curative agent in cardiovascular diseases, in particular in high blood pressure and vascular and organ damage accompanying high blood pressure. Compds. of formula I wherein R1 is aryl and heterocyclyl; R2 is C2-8 alkenyloxy-C1-8 alkoxy, C2-8 alkenyloxy-C1-8 alkyl, C1-8 alkoxy, etc.; R3 is halo; Y is (un)substituted C1-8 alkylene, (un)substituted C1-8 alkenyloxy-C1-8 alkylene, C1-8 alkylcarbonyl-C1-8 alkylene, etc.; Z is (un)substituted C1-8 alkylene-CO2, (un)substituted C1-8 alkylene-OCO2, (un)substituted C1-8 alkylene-CO-NH-CO and derivs., etc.; m is 0, 1 and 2; n, p and q are independently 0 and 1, where p is 0, q is 1; and p is 1 where q is 0; and their salts and their pharmaceutically usable salts thereof, are claimed. Example compound II was prepared by a general procedure (procedure given). All the invention compds. were evaluated for their renin inhibitory activity.
- IT 1006866-19-8P
RL: PRPH (Prophetic); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prophetic intermediate; preparation of nitrate ester derivs. of substituted piperidines useful in treatment and prevention of cardiovascular diseases)
- RN 1006866-19-8 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-hydroxy-, 1,1-dimethylethyl ester, (3R,4S,5S)-(CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:793715 CAPLUS

DOCUMENT NUMBER: 147:189075

TITLE: 3,4,5-Substituted piperidines as β -secretase, cathepsin D, plasmepsin II and HIV protease inhibitors and their preparation and use in the treatment of diseases

INVENTOR(S): Herold, Peter; Mah, Robert; Stutz, Stefan; Tschinke, Vincenzo; Schumacher, Christoph; Stojanovic, Aleksandar; Jotterand, Nathalie; Behnke, Dirk

PATENT ASSIGNEE(S): Speedel Experimenta AG, Switz.

SOURCE: U.S. Pat. Appl. Publ., 108 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

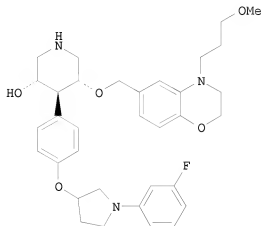
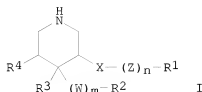
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20070167433	A1	20070719	US 2007-655108	20070119
EP 1816122	A2	20070808	EP 2007-100713	20070118
EP 1816122	A3	20070919		

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU

PRIORITY APPLN. INFO.: CH 2006-88 A 20060119

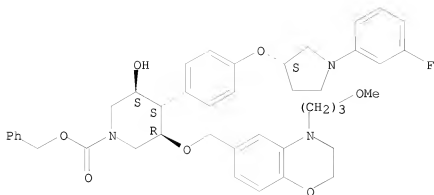
OTHER SOURCE(S): MARPAT 147:189075

GI



- AB Use of compds. of the general formula I and pharmaceutically acceptable salt thereof, as β -secretase, cathepsin D, plasmepsin II and/or HIV protease inhibitors. Compds. of formula I wherein R¹ is (un)substituted heterocyclyl and (un)substituted aryl; R² is Ph, naphthyl, acenaphthyl, pyridinyl, pyrimidinyl, etc.; R³ is H, OH, C1-8 alkoxy, and C1-8 alkenyloxy; R⁴ is (un)substituted C1-8 alkyl, (un)substituted C1-8 alkoxy-C1-8 alkyl, (mono/di)-C1-8 alkylamino-C1-8 alkyl, etc.; X is a bond, O, S, (un)substituted methylene, CHOH and derivs., etc.; W is O and S; Z is (un)substituted C1-8 alkylene, C2-8 alkenylene, O, N, S, etc.; n is 1 or n is 0 and 1 when X is OCO; m is 0 and 1; and their pharmaceutically acceptable salts, prodrugs, and stable non-radioactive isotopes thereof, are claimed. Example compound II was prepared by a multistep procedure (procedure given). All the invention compds. were evaluated for their β -secretase, cathepsin D, plasmepsin II and HIV protease inhibitory activity.
- IT 873945-20-1P 873945-22-3P 873945-23-4P
 873945-25-6P 873946-26-0P 873946-30-6P
 873946-31-7P 873946-42-0P 873946-43-1P
- RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; preparation of trisubstituted piperidines as β -secretase, cathepsin D, plasmepsin II and HIV-protease inhibitors useful in the treatment of diseases)
- RN 873945-20-1 CAPLUS
- CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-hydroxy-, phenylmethyl ester, (3R,4S,5S)- (CA INDEX NAME)

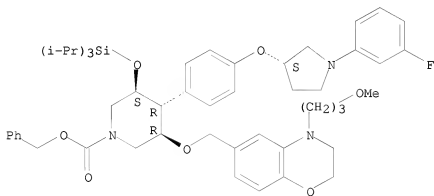
Absolute stereochemistry.



RN 873945-22-3 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[[tris(1-methylethyl)silyl]oxy]-, phenylmethyl ester, (3R,4R,5S)- (CA INDEX NAME)

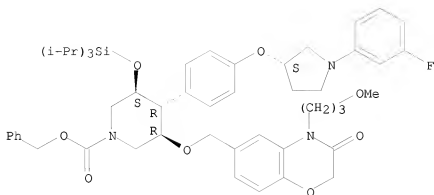
Absolute stereochemistry.



RN 873945-23-4 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-3-oxo-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[[tris(1-methylethyl)silyl]oxy]-, phenylmethyl ester, (3R,4R,5S)- (CA INDEX NAME)

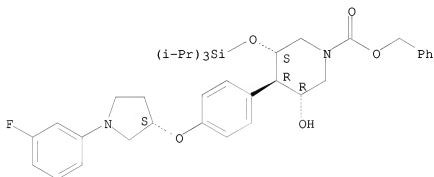
Absolute stereochemistry.



RN 873945-25-6 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-[[[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-3-hydroxy-5-[[tris(1-methylethyl)silyl]oxy]-phenylmethyl ester, (3R,4R,5S)- (CA INDEX NAME)

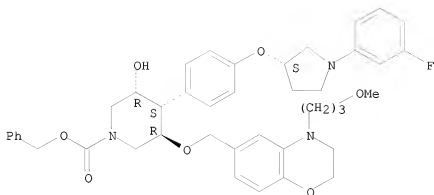
Absolute stereochemistry.



RN 873946-26-0 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-hydroxy-, phenylmethyl ester, (3R,4S,5R)- (CA INDEX NAME)

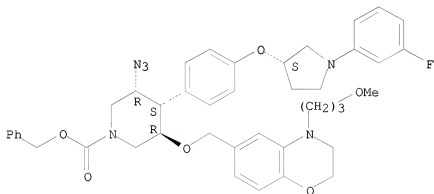
Absolute stereochemistry.



RN 873946-30-6 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-azido-5-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-, phenylmethyl ester, (3R,4S,5R)- (CA INDEX NAME)

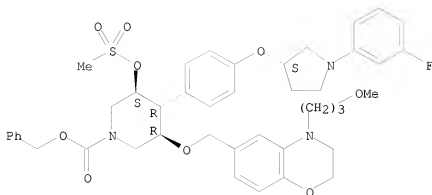
Absolute stereochemistry.



RN 873946-31-7 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[(methylsulfonyl)oxy]-, phenylmethyl ester, (3R,4R,5S)- (CA INDEX NAME)

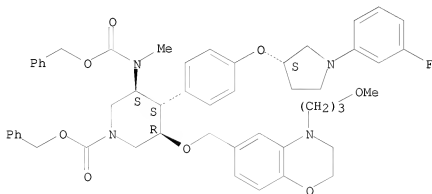
Absolute stereochemistry.



RN 873946-42-0 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[methyl[(phenylmethoxy)carbonyl]amino]-, phenylmethyl ester, (3R,4S,5S)- (CA INDEX NAME)

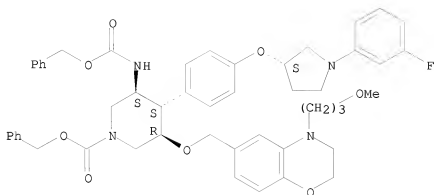
Absolute stereochemistry.



RN 873946-43-1 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[[[(phenylmethoxy)carbonyl]amino]-, phenylmethyl ester, (3R,4S,5S)- (CA INDEX NAME)

Absolute stereochemistry.



L8 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:1356517 CAPLUS

DOCUMENT NUMBER: 146:75295

TITLE: 1-([4-(1-Azetidinylcarbonyl)phenyl]carbonyl)-4-(4-([1-(1-methylethyl)-4-piperidinyl]oxy)phenyl)piperidine and derivatives thereof, preparation, pharmaceutical compositions, and use for the treatment of inflammatory and allergic disorders

INVENTOR(S): Bamford, Mark James; Dean, David Kenneth; Hancock, Ashley Paul; Wilson, David Matthew

PATENT ASSIGNEE(S): Glaxo Group Ltd., UK

SOURCE: U.S. Pat. Appl. Publ., 13 pp., Cont.-in-part of U.S. Ser. No. 551,985.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

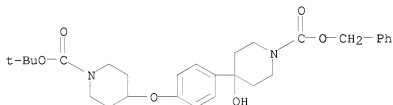
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060293298	A1	20061228	US 2005-246480	20051007
WO 2004089373	A1	20041021	WO 2004-EP3985	20040408
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZA, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 20060205774	A1	20060914	US 2005-551985	20051004
WO 2006125665	A1	20061130	WO 2006-EP5053	20060523
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,			

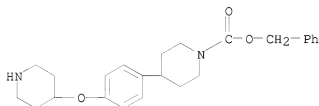
VN, YU, ZA, ZM, ZW
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 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM
 EP 1883636 A1 20080206 EP 2006-743071 20060523
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, HR
 JP 2008542229 T 20081127 JP 2008-512778 20060523
 PRIORITY APPLN. INFO.: GB 2003-8333 A 20030410
 WO 2004-EP3985 W 20040408
 GB 2005-10731 A 20050525
 US 2005-551985 A2 20051004
 US 2005-246480 A 20051007
 WO 2006-EP5053 W 20060523

OTHER SOURCE(S): CASREACT 146:75295

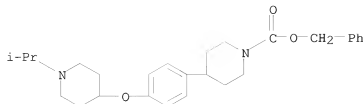
AB The invention relates to 1-{{[4-(1-Azetidinylcarbonyl)phenyl]carbonyl}-4-(4-
 {[1-(1-methylethyl)-4-piperidinyl]oxy}phenyl)piperidine and derivs.
 thereof, and to compns., processes for its preparation and its uses in therapy.
 IT 778642-37-8P 915199-12-1P 915199-13-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (1-{{[4-(1-Azetidinylcarbonyl)phenyl]carbonyl}-4-(4-{{[1-(1-methylethyl)-
 4-piperidinyl]oxy}phenyl)piperidine and derivs., preparation, pharmaceutical
 compns., and use for treatment of inflammatory and allergic disorders)
 RN 778642-37-8 CAPLUS
 CN 1-Piperidinecarboxylic acid, 4-[4-[[1-[(1,1-dimethylethoxy)carbonyl]-4-
 piperidinyl]oxy]phenyl]-4-hydroxy-, phenylmethyl ester (CA INDEX NAME)



RN 915199-12-1 CAPLUS
 CN 1-Piperidinecarboxylic acid, 4-[4-(4-piperidinyl)oxy]phenyl]-, phenylmethyl
 ester (CA INDEX NAME)



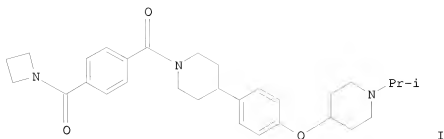
RN 915199-13-2 CAPLUS
 CN 1-Piperidinecarboxylic acid, 4-[4-[[1-(1-methylethyl)-4-
 piperidinyl]oxy]phenyl]-, phenylmethyl ester (CA INDEX NAME)



L8 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2006:1251768 CAPLUS
 DOCUMENT NUMBER: 145:505340
 TITLE: Preparation of piperidine derivative as H1 receptor antagonist for treatment of allergic rhinitis
 INVENTOR(S): Bamford, Mark James; Dean, David Kenneth; Hancock, Ashley Paul; Wilson, David Matthew
 PATENT ASSIGNEE(S): Glaxo Group Limited, UK
 SOURCE: PCT Int. Appl., 34pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006125665	A1	20061130	WO 2006-EP5053	20060523
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
US 20060293298	A1	20061228	US 2005-246480	20051007
EP 1883636	A1	20080206	EP 2006-743071	20060523
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, HR			
JP 2008542229	T	20081127	JP 2008-512778	20060523
PRIORITY APPLN. INFO.:			GB 2005-10731	A 20050525
			US 2005-246480	A 20051007
			GB 2003-8333	A 20030410
			WO 2004-EP3985	W 20040408
			US 2005-551985	A2 20051004
			WO 2006-EP5053	W 20060523

OTHER SOURCE(S): CASREACT 145:505340
 GI



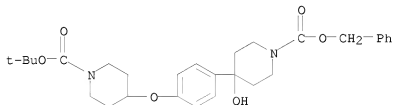
AB The title compound with structure I was prepared in a multistep synthesis from 4-(azetidin-1-ylcarbonyl)benzoic acid and 1-(1-methylethyl)-4-[[4-(4-piperidinyl)phenyl]oxy]piperidine (preparation given). I or pharmaceutically acceptable salts thereof are prepared as antagonist of H1 receptor for the treatment of various disorders, such as allergic rhinitis. I exhibited antagonistic activities with pKi values of 9.6 and 5.6, resp., against histamine H3 and H1. I also showed low CNS penetration and good oral bioavailability in male CD Sprague Dawley rats.

IT 778642-37-8P 915199-12-1P 915199-13-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of piperidine derivative as H1 receptor antagonist for treatment of allergic rhinitis)

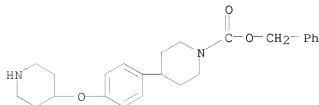
RN 778642-37-8 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-[[1-[(1,1-dimethylethoxy)carbonyl]-4-piperidinyl]oxy]phenyl]-4-hydroxy-, phenylmethyl ester (CA INDEX NAME)



RN 915199-12-1 CAPLUS

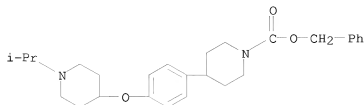
CN 1-Piperidinecarboxylic acid, 4-[4-(4-piperidinyloxy)phenyl]-, phenylmethyl ester (CA INDEX NAME)



RN 915199-13-2 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-[[1-(1-methylethyl)-4-

piperidinyl]oxy]phenyl]-, phenylmethyl ester (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)
REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2009 ACS ON STN

ACCESSION NUMBER: 2006:53811 CAPLUS

DOCUMENT NUMBER: 144:150244

TITLE: Preparation of
3-hydroxy/alkoxy-4-phenyl-5-alkoxypiperidines as renin
inhibitorsINVENTOR(S): Herold, Peter; Mah, Robert; Stutz, Stefan; Stojanovic,
Aleksandar; Tschinke, Vincenzo; Jotterand, Nathalie;
Behnke, Dirk

PATENT ASSIGNEE(S): Speedel Experimenta A.-G., Switz.

SOURCE: PCT Int. Appl., 66 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006005741	A2	20060119	WO 2005-EP53306	20050711
WO 2006005741	A3	20060706		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
CA 2570920	A1	20060119	CA 2005-2570920	20050711
EP 1776359	A2	20070425	EP 2005-761185	20050711
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR			
CN 101014594	A	20070808	CN 2005-80022749	20050711
JP 2008505871	T	20080228	JP 2007-519812	20050711
BR 2005013199	A	20080429	BR 2005-13199	20050711
IN 2006DN07870	A	20070817	IN 2006-DN7870	20061226
US 20080076766	A1	20080327	US 2007-631777	20070108

PRIORITY APPLN. INFO.:

CH 2004-1158

A 20040709

WO 2005-EP53306

W 20050711

OTHER SOURCE(S):

CASREACT 144:150244; MARPAT 144:150244

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [R1 = aryl when R2 = (un)substituted tetrazolyl, imidazolyl; or R1 = (un)substituted aryl, heterocyclyl, etc.; R2 = (un)substituted Ph, naphthyl, cyclohexyl, pyrazinyl, tetrazolyl, etc.; R3 = H, OH, alkoxy, alkenyloxy; R4 = alkylcarbonylalkoxy/alkoxy, etc.; X = a bond, O, S, NH and derivs., OCO, etc.; V = [W]m; W = O, S; Y = [Z]n; Z = alk(en)ylene, hydroxyalkylidene, O, N, S, with provisos; n = 1 or, when X = OCO, n = 0-1; m = 0-1; and their salts, prodrugs, and compds. in which one or more atoms are replaced by their stable, non-radioactive isotopes, in particular pharmaceutically acceptable salts] were prepared as renin inhibitors. For example, II was prepared via O-alkylation of phenol III (preparation given) with 1-(3-fluorophenyl)pyrrolidin-(3R)-3-yl p-toluene-4-sulfonate (preparation given) and O-alkylation of the resulting hydroxypiperidine with 6-chloromethyl-4-(3-methoxypropyl)-4H-benzo[1,4]oxazin-3-one (preparation given). I were tested in vitro for renin inhibitory activity by measuring the reduction of the formation of angiotensin I in human plasma and exhibited inhibitory effects at min. concns. of about 10⁻⁶ to about 10⁻¹⁰ mol/l. I effectively reduced blood pressure in vivo when administered at doses of about 0.003 to about 0.3 mg/kg i.v. and at doses of about 0.3 to about 30 mg/kg p.o. to primates. I are useful for treating hypertension, heart and kidney failure (no data), glaucoma (no data), etc.

IT 873945-20-1P 873945-22-3P 873945-23-4P
 873945-25-6P 873946-26-0P 873946-30-6P
 873946-31-7P 873946-42-0P 873946-43-1P

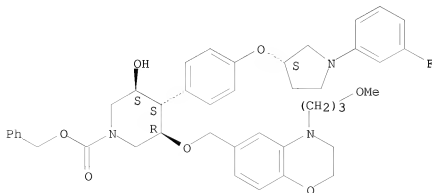
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of substituted piperidines as renin inhibitors)

RN 873945-20-1 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[[3S]-1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-hydroxy-, phenylmethyl ester, (3R,4S,5S)- (CA INDEX NAME)

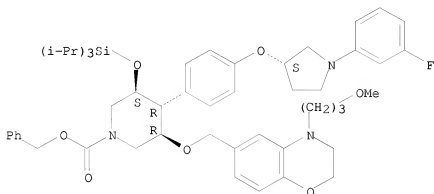
Absolute stereochemistry.



RN 873945-22-3 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[[tris(1-methylethyl)silyl]oxy]-, phenylmethyl ester, (3R,4R,5S)- (CA INDEX NAME)

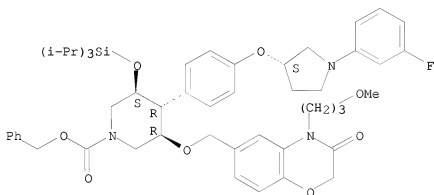
Absolute stereochemistry.



RN 873945-23-4 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-3-oxo-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[[tris(1-methylethyl)silyl]oxy]-, phenylmethyl ester, (3R,4R,5S)- (CA INDEX NAME)

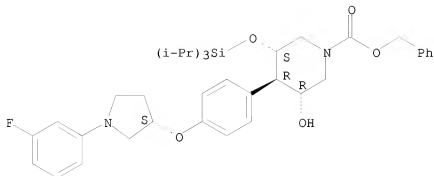
Absolute stereochemistry.



RN 873945-25-6 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-[[[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-3-hydroxy-5-[[tris(1-methylethyl)silyl]oxy]-, phenylmethyl ester, (3R,4R,5S)- (CA INDEX NAME)

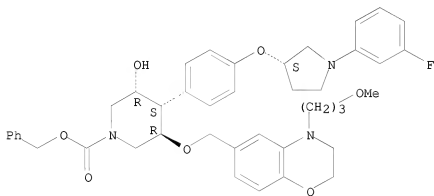
Absolute stereochemistry.



RN 873946-26-0 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-hydroxy-, phenylmethyl ester, (3R,4S,5R)- (CA INDEX NAME)

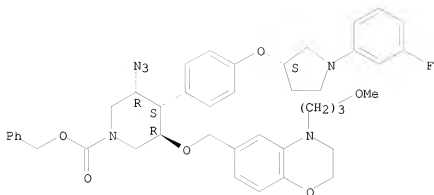
Absolute stereochemistry.



RN 873946-30-6 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-azido-5-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-, phenylmethyl ester, (3R,4S,5R)- (CA INDEX NAME)

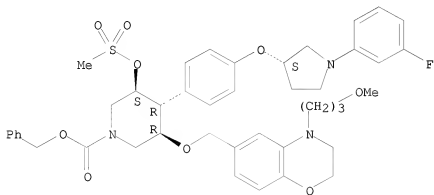
Absolute stereochemistry.



RN 873946-31-7 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[(methylsulfonyl)oxy]-, phenylmethyl ester, (3R,4R,5S)- (CA INDEX NAME)

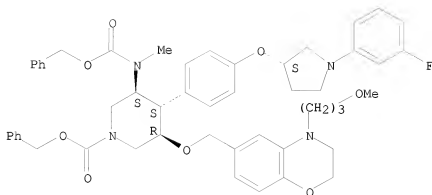
Absolute stereochemistry.



RN 873946-42-0 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[methyl[(phenylmethoxy)carbonyl]amino]-, phenylmethyl ester, (3R,4S,5S)- (CA INDEX NAME)

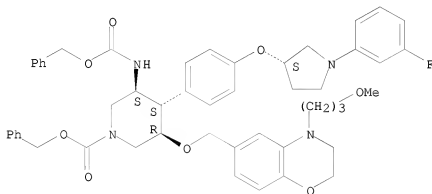
Absolute stereochemistry.



RN 873946-43-1 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]oxy]phenyl]-5-[[[phenylmethoxy]carbonyl]amino]-, phenylmethyl ester, (3R,4S,5S)- (CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT: 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS RECORD (13 CITINGS)
 REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:588898 CAPLUS

DOCUMENT NUMBER: 143:115449

TITLE: Preparation of piperidines as renin inhibitors useful against hypertension and other disorders
 INVENTOR(S): Herold, Peter; Mah, Robert; Stutz, Stefan; Stojanovic, Aleksandar; Tschinke, Vincenzo; Jotterand, Nathalie
 PATENT ASSIGNEE(S): Speedel Experimenta A.-G., Switz.
 SOURCE: PCT Int. Appl., 252 pp.
 CODEN: PIXXD2

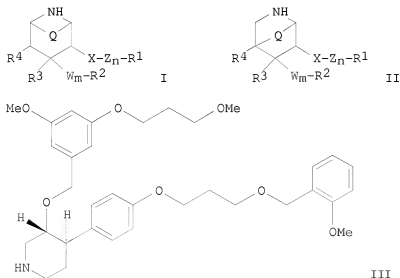
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005061457	A1	20050707	WO 2004-EP52389	20040930
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1670760	A1	20060621	EP 2004-820600	20040930
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK			
EP 1961752	A2	20080827	EP 2008-100929	20040930
EP 1961752	A3	20081119		
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR			
US 20070010511	A1	20070111	US 2006-574108	20060331
US 20090012055	A1	20090108	US 2008-68443	20080206
PRIORITY APPLN. INFO.:			CH 2003-1669	A 20031001
			CH 2004-343	A 20040227
			EP 2004-820600	A3 20040930
			WO 2004-EP52389	W 20040930
			US 2006-574108	A3 20060331
OTHER SOURCE(S):	CASREACT 143:115449; MARPAT 143:115449			
GI				



III

AB Novel substituted piperidines (shown as I and II; variables defined below; e.g. trans-4-[4-[3-(2-methoxybenzyloxy)propoxy]phenyl]-3-[(3-methoxy-5-(3-methoxypropoxy)benzyloxy]piperidine (shown as III)) are described. The

comps. are suitable in particular as renin inhibitors and are highly potent. A test that measures the formation of angiotensin I in human plasma revealed that I exhibit inhibiting actions in the in vitro systems at min. concns. of .apprx.10⁻⁶ to .apprx.10⁻¹⁰ mol/L. Comps. I effectively reduce blood pressure in an in vivo test involving normotensive marmosets at doses of .apprx.0.003 to .apprx.0.3 mg/kg i.v. and at doses of .apprx.0.3 to .apprx.30 mg/kg p.o. For I: R1 is (un)substituted oxazolyl, indolyl, pyrrolyl, pyrazolyl, triazinyl, 2-oxodihydrobenzo[d][1,3]oxazinyl, 4-oxodihydroimidazolyl, 5-oxo-4H-[1,2,4]triazinyl, 3-oxo-4H-benzo[1,4]thiazinyl, tetrahydroquinoxalyl, 1,1,3-trioxodihydro-2H-1λ6-benzo[1,4]thiazinyl, 1-oxopyridyl, dihydro-2H-benzo[1,4]oxazinyl, 2-oxotetrahydrobenzo[e][1,4]diazepinyl, etc. For II: R1 is aryl or heteroaryl. For I and II: R2 is (un)substituted Ph, naphthyl, acenaphthyl, cyclohexyl, pyridyl, pyrimidinyl, pyrazinyl, oxopyridinyl, diazinyl, triazolyl, thienyl, oxazolyl, oxadiazolyl, thiazolyl, pyrrolyl, furyl, tetrazolyl or imidazolyl;. R3 is H, hydroxy, Cl-6-alkoxy or C2-6-alkenyl; R4 is H, Cl-6-alkyl, C2-6-alkenyl, Cl-6-alkoxy, hydroxy-Cl-6-alkyl, Cl-6-alkoxy-Cl-6-alkyl, benzyl, oxo, etc.; or R3 and R4 in I together are a bond. Q is ethylene or is absent for I or is ethylene or methylene for II; X is a bond, O or S, or is a >CHR11, >CHOR9, -OCO-, >CO, >C:NR10, -OCHR11- or -OCHR11-CO-NR9- group and the bond starting from an O or S atom leads to a saturated C atom of the Z group or to R1; W is O or S; Z is Cl-6-alkylene, C2-6-alkenylene, hydroxy-Cl-6-alkylidene, -O-, -S-, -O-alk-, -S-alk-, -alk-O-, -alk-S- or -alk-NR9-, where alk is Cl-6-alkylene; n = 0-1; m = 0-1; addnl. details including provisos are given in the claims. Although the methods of preparation are not claimed, example preps. and/or characterization data for 360 I and II are included. For example, III was prepared from by deprotection of tert-Bu 4-[4-(3-benzoyloxypropoxy)phenyl]-3-[[[3-(3-methoxypropoxy)phenyl]methyl]oxy]piperidine-1-carboxylate, which was prepared by ether formation between tert-Bu 3-hydroxy-4-[4-[3-(2-methoxybenzyloxy)propoxy]phenyl]piperidine-1-carboxylate and 1-chloromethyl-3-methoxy-5-(3-methoxypropoxy)benzene using NaH in DMF.

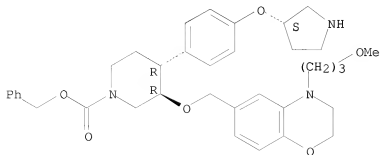
II 857278-52-5, Benzyl (3R,4R)-3-[[4-(3-methoxypropyl)-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl]methoxy]-4-[4-[[[(S)-pyrrolidin-3-yl]oxy]phenyl]piperidine-1-carboxylate

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of piperidines as renin inhibitors useful against hypertension and other disorders)

RN 857278-52-5 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[(3S)-3-pyrrolidinyl]oxy]phenyl]-, phenylmethyl ester, (3R,4R)- (CA INDEX NAME)

Absolute stereochemistry.

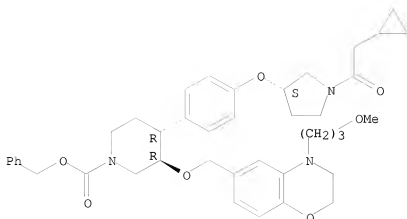


IT 857278-50-3P, Benzyl (3R,4R)-4-[4-[(3S)-1-(2-cyclopropylacetyl)pyrrolidin-3-yl]oxy]phenyl]-3-[[4-(3-methoxypropyl)-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl]methoxy]piperidine-1-carboxylate
 857278-57-0P, Benzyl (3R,4R)-3-[[4-(3-methoxypropyl)-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl]methoxy]-4-[4-[(3S)-1-phenylpyrrolidin-3-yl]oxy]phenyl]piperidine-1-carboxylate 857278-58-1P, Benzyl (3R,4R)-3-[[4-(3-methoxypropyl)-3-oxo-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl]methoxy]-4-[4-[(3S)-1-phenylpyrrolidin-3-yl]oxy]phenyl]piperidine-1-carboxylate 857278-59-2P, Benzyl (3R,4R)-3-[[4-(3-methoxypropyl)-3-oxo-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl]methoxy]-4-[4-[(3S)-pyrrolidin-3-yl]oxy]phenyl]piperidine-1-carboxylate 857278-60-5P, Benzyl (3R,4R)-4-[4-[(3S)-1-(tert-butoxycarbonyl)pyrrolidin-3-yl]oxy]phenyl]-3-[[4-(3-methoxypropyl)-3-oxo-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl]methoxy]piperidine-1-carboxylate 857278-61-6P, Benzyl (3R,4R)-4-[4-[(3S)-1-(tert-butoxycarbonyl)pyrrolidin-3-yl]oxy]phenyl]-3-hydroxypiperidine-1-carboxylate 857279-89-1P, Benzyl (3R,4R)-4-[4-[(3S)-1-cyclohexylpyrrolidin-3-yl]oxy]phenyl]-3-[[4-(3-methoxypropyl)-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl]methoxy]piperidine-1-carboxylate 857279-90-4P, Benzyl (3R,4R)-4-[4-[(3S)-1-cyclohexylpyrrolidin-3-yl]oxy]phenyl]-3-[[4-(3-methoxypropyl)-3-oxo-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl]methoxy]piperidine-1-carboxylate 857280-03-6P, Benzyl (3R,4R)-3-[2-[2-(2-(acetylamino)ethyl]-5-fluorophenoxy]ethoxy]-4-[4-[(3S)-1-phenylpyrrolidin-3-yl]oxy]phenyl]piperidine-1-carboxylate 857280-04-7P, Benzyl (3R,4R)-3-[2-[2-(2-(acetylamino)ethyl)-5-fluorophenoxy]ethoxy]-4-[4-[(3S)-pyrrolidin-3-yl]oxy]phenyl]piperidine-1-carboxylate 857280-05-8P, Benzyl (3R,4R)-3-[2-[2-(2-(acetylamino)ethyl)-5-fluorophenoxy]ethoxy]-4-[4-[(3S)-1-(tert-butoxycarbonyl)pyrrolidin-3-yl]oxy]phenyl]piperidine-1-carboxylate 857280-09-2P, Benzyl (3R,4R)-3-[[4-(3-methoxypropyl)-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl]methoxy]-4-[4-[(3S)-2-oxo-1-phenylpyrrolidin-3-yl]oxy]phenyl]piperidine-1-carboxylate
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of piperidines as renin inhibitors useful against hypertension and other disorders)

RN 857278-50-3 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-[(3S)-1-(2-cyclopropylacetyl)-3-pyrrolidinyl]oxy]phenyl]-3-[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-, phenylmethyl ester, (3R,4R)-rel- (CA INDEX NAME)

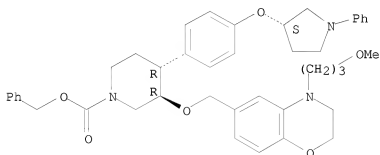
Relative stereochemistry.



RN 857278-57-0 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[[(3S)-1-phenyl-3-pyrrolidinyl]oxy]phenyl]-, phenylmethyl ester, (3R,4R)- (CA INDEX NAME)

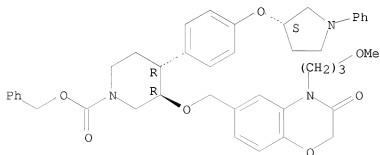
Absolute stereochemistry.



RN 857278-58-1 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-3-oxo-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[[[(3S)-1-phenyl-3-pyrrolidinyl]oxy]phenyl]-, phenylmethyl ester, (3R,4R)- (CA INDEX NAME)

Absolute stereochemistry.



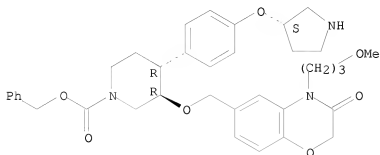
RN 857278-59-2 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-3-oxo-2H-

10/551,985

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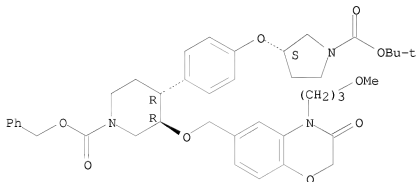
Absolute stereochemistry.



RN 857278-60-5 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[[3,4-dihydro-4-(3-methoxypropyl)-3-oxo-2H-1,4-benzoxazin-6-yl]methoxy]-4-[4-[(3S)-1-[(1,1-dimethylethoxy)carbonyl]-3-pyrrolidinyl]oxy]phenyl]-, phenylmethyl ester, (3R,4R)- (CA INDEX NAME)

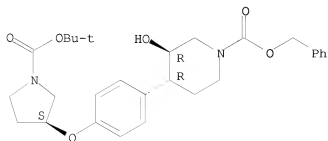
Absolute stereochemistry.



RN 857278-61-6 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-[[[(3S)-1-[(1,1-dimethylethoxy)carbonyl]-3-pyrrolidinyl]oxy]phenyl]-3-hydroxy-, phenylmethyl ester, (3R,4R)- (CA INDEX NAME)

Absolute stereochemistry.

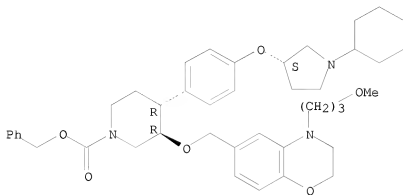


RN 857279-89-1 CAPLUS

10/551,985

CN 1-Piperidinecarboxylic acid, 4-[4-[[(3S)-1-cyclohexyl-3-pyrrolidinyl]oxy]phenyl]-3-[[3,4-dihydro-4-(3-methoxypropyl)-2H-1,4-benzoxazin-6-yl]methoxy]-, phenylmethyl ester, (3R,4R)- (CA INDEX NAME)

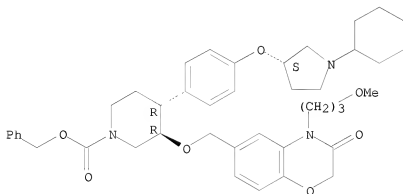
Absolute stereochemistry.



RN 857279-90-4 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-[[(3S)-1-cyclohexyl-3-pyrrolidinyl]oxy]phenyl]-3-[[3,4-dihydro-4-(3-methoxypropyl)-3-oxo-2H-1,4-benzoxazin-6-yl]methoxy]-, phenylmethyl ester, (3R,4R)- (CA INDEX NAME)

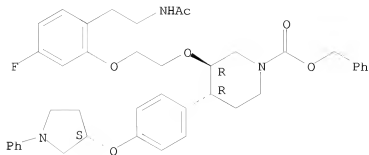
Absolute stereochemistry.



RN 857280-03-6 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[2-[2-[2-(acetylamino)ethyl]-5-fluorophenoxy]ethoxy]-4-[4-[[(3S)-1-phenyl-3-pyrrolidinyl]oxy]phenyl]-, phenylmethyl ester, (3R,4R)- (CA INDEX NAME)

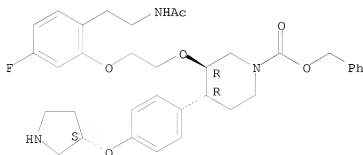
Absolute stereochemistry.



RN 857280-04-7 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[2-[2-[2-(acetylamino)ethyl]-5-fluorophenoxy]ethoxy]-4-[4-[(3S)-3-pyrrolidinyloxy]phenyl]-, phenylmethyl ester, (3R,4R)- (CA INDEX NAME)

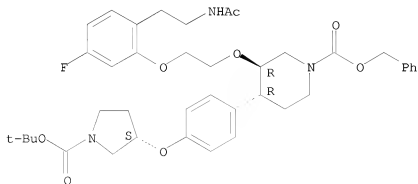
Absolute stereochemistry.



RN 857280-05-8 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[2-[2-[2-(acetylamino)ethyl]-5-fluorophenoxy]ethoxy]-4-[4-[(3S)-1-[(1,1-dimethylethoxy)carbonyl]-3-pyrrolidinyloxy]phenyl]-, phenylmethyl ester, (3R,4R)- (CA INDEX NAME)

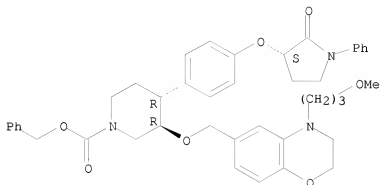
Absolute stereochemistry.



RN 857280-09-2 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[2-[2-[2-(acetylamino)ethyl]-5-fluorophenoxy]ethoxy]-4-[4-[(3S)-2-oxo-1-phenyl-3-pyrrolidinyloxy]phenyl]-, phenylmethyl ester, (3R,4R)- (CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT: 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS)
 REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:878289 CAPLUS

DOCUMENT NUMBER: 141:366134

TITLE: Preparation of
 4-(4-(heterocyclylalkoxy)phenyl)-1-(heterocyclyl-carbonyl)piperidine derivatives and related compounds as histamine H3 antagonists for the treatment of neurological diseases such as Alzheimer's

INVENTOR(S): Bamford, Mark James; Dean, David Kenneth; Wilson, David Matthew

PATENT ASSIGNEE(S): Glaxo Group Limited, UK

SOURCE: PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

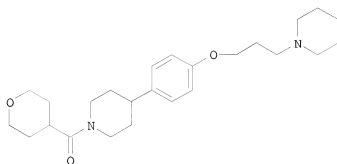
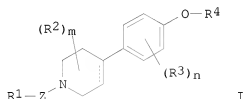
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004089373	A1	20041021	WO 2004-EP3985	20040408
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004228949	A1	20041021	AU 2004-228949	20040408
AU 2004228949	B2	20061102		
CA 2521899	A1	20041021	CA 2004-2521899	20040408
EP 1610786	A1	20060104	EP 2004-726514	20040408
EP 1610786	B1	20070620		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR

BR 2004009110	A	20060328	BR 2004-9110	20040408
CN 1805747	A	20060719	CN 2004-80016195	20040408
JP 2006522771	T	20061005	JP 2006-505136	20040408
AT 365039	T	20070715	AT 2004-726514	20040408
ES 2288681	T3	20080116	ES 2004-726514	20040408
ZA 2005007795	A	20060726	ZA 2005-7795	20050927
IN 2005DN04435	A	20070928	IN 2005-DN4435	20050930
US 20060205774	A1	20060914	US 2005-551985	20051004
US 20060293298	A1	20061228	US 2005-246480	20051007
NO 2005005256	A	20060110	NO 2005-5256	20051109
PRIORITY APPLN. INFO.:			GB 2003-8333	A 20030410
			WO 2004-EP3985	W 20040408
			GB 2005-10731	A 20050525
			US 2005-551985	A2 20051004

OTHER SOURCE(S): MARPAT 141:366134
 GI



AB The present invention provides, in a first aspect, a compound of formula I [R1 = (un)substituted-C1-6alkyl-O-C1-6alkyl, -C3-8cycloalkyl, -aryl, -heterocyclyl, -heteroaryl, etc.; X = bond, O, CO, OCH2, CH2O or SO2; Z represents CO, CONR10 or SO2; R10 represents H, C1-6alkyl, -C3-8cycloalkyl, aryl, heterocyclyl, heteroaryl; m and n independently = 0, 1 or 2; R2 = H, C1-6alkyl or C1-6alkoxy; R3 represents halo, C1-6alkyl, OH, C1-6alkoxy, CN, amino, -COC1-6alkyl, -SO2C1-6alkyl or F3C; R4 = heterocyclyl or heterocyclylalkyl] or a pharmaceutically acceptable salt thereof, and methods to prepare I. Thus, e.g., II was prepared via amidation of 1-(3-([4-(4-piperidinyl)phenyl]oxy)propyl)piperidine (preparation given) with tetrahydropyran-4-carboxylic acid. I and their pharmaceutically acceptable salts have affinity for and are antagonists and/or inverse agonists of the histamine H3 receptor and are believed to be of potential use in the treatment of neurol. diseases including Alzheimer's disease. I were tested in the histamine H3 functional antagonist assay and exhibited

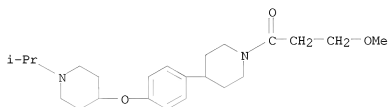
pKb values > 8.0.

IT 778641-93-3P 778642-04-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidate; preparation or arylpiperidine derivs. as histamine H3 antagonists)

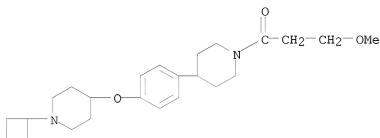
RN 778641-93-3 CAPLUS

CN 1-Propanone, 3-methoxy-1-[4-[4-[[1-(1-methylethyl)-4-piperidinyloxy]phenyl]-1-piperidiny]- (CA INDEX NAME)



RN 778642-04-9 CAPLUS

CN 1-Propanone, 1-[4-[4-[(1-cyclobutyl-4-piperidinyloxy)phenyl]-1-piperidiny]-3-methoxy- (CA INDEX NAME)



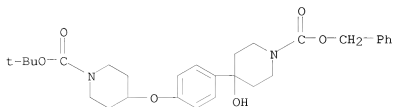
IT 778642-37-8P 778642-38-9P 778642-39-0P

778642-41-4P 778642-45-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(intermediate; preparation or arylpiperidine derivs. as histamine H3 antagonists)

RN 778642-37-8 CAPLUS

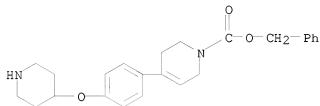
CN 1-Piperidinecarboxylic acid, 4-[4-[[1-[(1,1-dimethylethoxy)carbonyl]-4-piperidinyloxy]phenyl]-4-hydroxy-, phenylmethyl ester (CA INDEX NAME)



RN 778642-38-9 CAPLUS

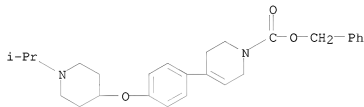
10/551,985

CN 1(2H)-Pyridinecarboxylic acid, 3,6-dihydro-4-[4-(4-piperidinyloxy)phenyl]-, phenylmethyl ester (CA INDEX NAME)



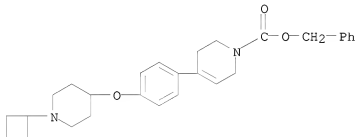
RN 778642-39-0 CAPLUS

CN 1(2H)-Pyridinecarboxylic acid, 3,6-dihydro-4-[4-[[1-(1-methylethyl)-4-piperidinyl]oxy]phenyl]-, phenylmethyl ester (CA INDEX NAME)



RN 778642-41-4 CAPLUS

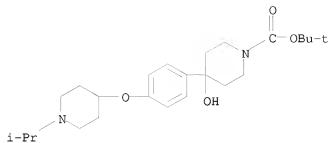
CN 1(2H)-Pyridinecarboxylic acid, 4-[4-[(1-cyclobutyl-4-piperidinyl)oxy]phenyl]-3,6-dihydro-, phenylmethyl ester (CA INDEX NAME)



RN 778642-45-8 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-hydroxy-4-[4-[[1-(1-methylethyl)-4-piperidinyl]oxy]phenyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

10/551,985



OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD
(5 CITINGS)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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(FILE 'HOME' ENTERED AT 12:00:19 ON 13 OCT 2009)

FILE 'REGISTRY' ENTERED AT 12:00:34 ON 13 OCT 2009

L1 STRUCTURE UPLOADED

L2 7 S L1

L3 110 S L1 FULL

FILE 'CAPLUS' ENTERED AT 12:01:08 ON 13 OCT 2009

L4 12 S L3

FILE 'REGISTRY' ENTERED AT 12:02:14 ON 13 OCT 2009

L5 STRUCTURE UPLOADED

L6 3 S L5

L7 127 S L5 FULL

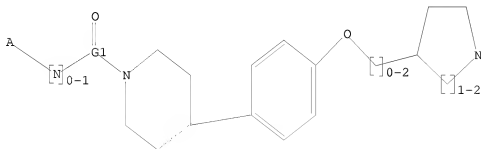
FILE 'CAPLUS' ENTERED AT 12:03:46 ON 13 OCT 2009

L8 11 S L7

=> d 15

L5 HAS NO ANSWERS

L5 STR



G1 C,S

Structure attributes must be viewed using STN Express query preparation.

10/551,985

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